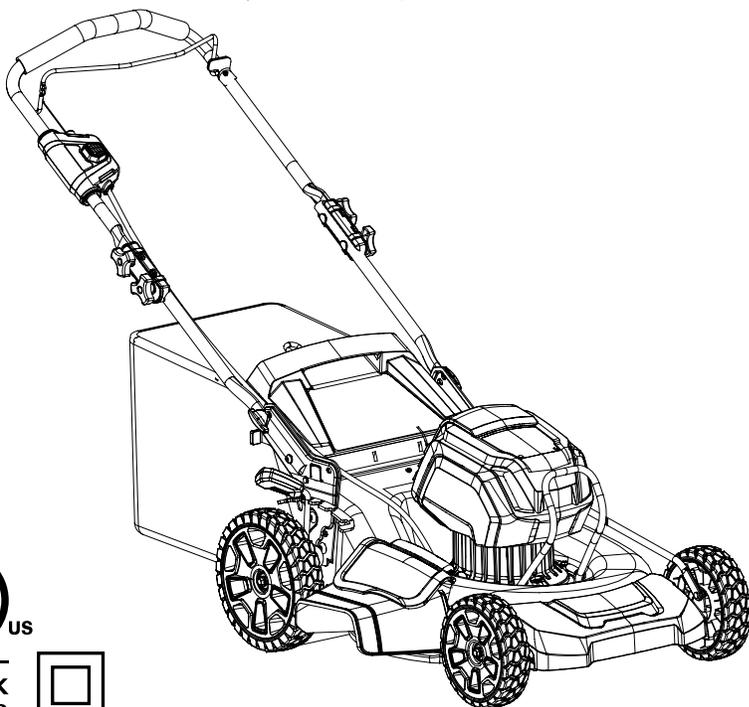

GREENWORKS

COMMERCIAL

82V Lithium-Ion Cordless Mower
GM 210
(2502802)



Intertek
3091488



Owner's Manual

TOLL-FREE HELPLINE: 1 (855) 470-4267
www.greenworkstools.com/82v-commercial/

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

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PRODUCT SPECIFICATIONS

82 V LITHIUM-ION CORDLESS MOWER

Battery type.....	82V Lithium-ion
No-load speed.....	2800/3300 RPM
Deck size.....	21" (53.3 cm)
Height adjustments.....	1 3/8 - 3 3/4" (3.5 - 9.5 cm)
Functions.....	3-in-1: Mulch, side discharge or rear bag
Unit weight (with battery).....	.62 lbs (28.1 kg)



SAFETY INFORMATION

GENERAL SAFETY RULES

READ ALL INSTRUCTIONS CAREFULLY

W A R N I N G

This symbol indicates important safety instructions. If these instructions are not followed, it could endanger the personal safety and/or property of the operator and others. Read and understand all instructions in this manual before attempting to operate the mower. Failure to comply with these instructions may result in personal injury.

D A N G E R

This mower was built to be operated according to the rules for safe operation that are contained 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 mower is capable of amputating body parts and throwing objects. Failure to observe the following safety rules could result in serious injury or death.

W A R N I N G

Basic safety precautions should always be followed when using electric lawn mowers, in order to reduce the risk of fire, electric shock, and personal injury.

W A R N I N G

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.

W A R N I N G

- For safe operation, read and understand the instruction manual.
 - To reduce the risk of electric shock, do not expose to water or operate on wet ground.
 - Replace damaged parts immediately. Disconnect and remove battery prior to servicing.
 - Remove the battery pack before servicing or removing blade.
 - Do not reach under blade guard.
 - Go across slopes, not up and down.
 - Do not operate within 100 ft. of people or animals. Do not mow when children or others are around.
 - Keep safety devices (guards, shields, switches etc.) in place and working.
 - Look down and behind before and while moving backwards.
 - Remove objects that could be thrown by the blade.
 - To reduce the risk of eye injury, wear safety glasses.
 - Some dust created by using power tools contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.
 - Meet CPSC blade safety requirements.
 - For use only with Greenworks GL 200/GL 250/GL 300/GL 400/GL 500/GL 900 battery and Greenworks GC 400 charger.
-

SAFETY INFORMATION

- 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 100' (30 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, bones, 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 that complies with ANSI Z87.1 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.
- 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 on to 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 operate the mower while under the influence of alcohol or drugs.
- Stay Alert: Do not operate the mower when you are tired. Pay attention to what you are doing. Use common sense.
- 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.
- 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.

SAFETY INFORMATION

- 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, switch 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.
- Don't force lawn mower. It will do the job better and safer at the rate for which it was designed.
- Store idle lawn mower indoors. When not in use, lawn mower should be stored in an indoor dry and look-up place, out of reach of children.
- Maintain lawn mower. Keep cutting edges sharp and clean for best and safety performance.
- If lawn mower strikes a foreign objects follow these steps:
 - Stop lawn mower, release the bail lever.
 - Remove the battery.
 - Inspect for damage.
- Repair any damage before restarting and operating the lawn mower.
- Do not charge lawn mower in rain or in wet location.
- Remove or disconnect battery before servicing, cleaning or removing material from lawn mower.
- Inspect lawn mover cord periodically and if damaged , have it repaired by an authorized service facility
- Use identical replacement blades only
- Do not open or mutilate the battery . Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.

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.

BATTERY & CHARGER

CAUTION

Use only greenworks approved replacement batteries, other batteries may cause injury or damage to the mower. Use only with GL 200/GL 250/GL 300/GL 400/ GL 500/GL 900 battery.

SAFETY INFORMATION

BATTERY SAFETY RULES

- Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories. Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
- Do not place battery tools or their batteries near fire or heat. This will reduce the risk of explosion and possibly 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 personal 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. Following this rule 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 45°F but less than 104°F. To reduce the risk of serious personal 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. Following this rule will reduce the risk of serious personal injury.
- 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 sparks, burns, or a fire.
- Always remove battery pack from your tool when you are assembling parts, making adjustments, cleaning, or when not in use. Removing battery pack will prevent accidental starting that could cause serious personal injury.
- Always remove battery pack before storing the device. When battery becomes fully charged, unplug the charger from the power supply and remove the battery pack from the charger.
- Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.
- Keep battery pack dry, clean, and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean battery pack.

PROPER CARE FOR BATTERY

Off-season storage

To obtain the longest possible battery life, we suggest the following:

- Remove the battery pack from the charger once it is fully charged and ready for use.

For battery pack storage longer than 30 days:

SAFETY INFORMATION

- Store the battery pack where the temperature is below 80°F and away from moisture.
- Store battery packs in a 30%-50% charged condition.
- Every two months of storage, charge the pack as normal.

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 45° and 104°F. 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 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.
- Make sure the battery pack is secured in the charger before beginning operation.
- The battery pack will become slightly warm to the touch while charging. This is normal and does not indicate a problem.
- Do not place the charger and battery pack in an area of extreme heat or cold. They will work best at normal room temperature.
- When batteries become fully charged, unplug the charger from the power supply and remove the battery pack.

WARNING

When transporting or servicing unit, always remove the battery.

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.

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.

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
	Safety Alert	Precautions that involve your safety.
	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 Protection	Always wear safety glasses with side shields that are marked to comply with ANSI Z87.1.
	Keep Hands and Feet Away	Keep hands and feet away from blade and cutting area.
	No Reach	Do not reach hands or feet under mower deck.
	No Slope	Do not operate on inclines greater than 15°. Mow across the face of slopes, never up and down.
	Keep Bystanders Away	Keep all bystanders at least 100 ft. away.
	Ricochet	Pay attention that bystanders are not injured through foreign objects thrown from the mower.

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.

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.

 The battery contains material which is hazardous to you and the environment. It must be removed and disposed of separately at a facility that accepts lithium-ion batteries.

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 (855) 470-4267 for assistance.

WARNING

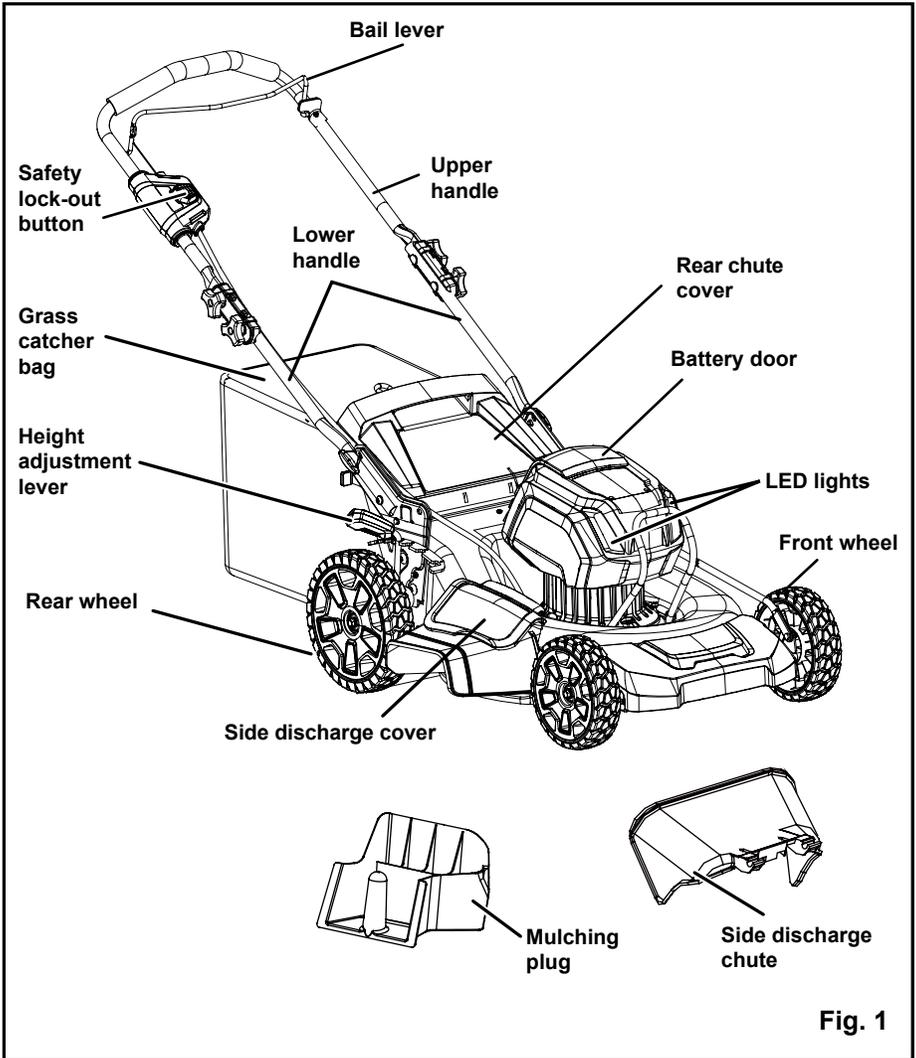


The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and, when needed, a full face shield. We recommend Wide Vision Safety 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.

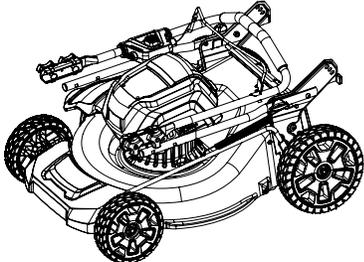
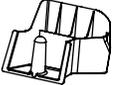
SAVE THESE INSTRUCTIONS

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

PART NAME	FIGURE	PART NO.
Lawn Mower		1
Mulching Plug		1
Side Discharge Chute		1
Grass Catcher Bag		1
Handle Knob		4
Handle Bolt		4
Owner's Manual		1

ASSEMBLY INSTRUCTIONS

UNPACKING

- 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 (855) 470-4267 for assistance.
-

W A R N I N G

If any parts are damaged or missing do not operate this product until the parts are replaced. Using a product with damaged or missing parts could result in serious personal injury.

W A R N I N G

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.

W A R N I N G

Do not insert battery until assembly is complete and you are ready to mow. Failure to comply could result in accidental starting and possible serious personal injury.

W A R N I N G

To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the product when assembling parts.

W A R N I N G

Never operate the mower without the proper safety devices in place and working. Never operate the mower with damaged safety devices. Operation of this product with damaged or missing parts could result in serious personal injury.

ASSEMBLY INSTRUCTIONS

UNFOLDING AND ADJUSTING LOWER HANDLE (See Figure 2)

⚠ WARNING

Folding or unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

- Do not damage the cables when folding or unfolding the handle.
- If a cable is damaged, contact an Authorized Service Dealer.

- Pull and rotate the handle knobs (1) 90° on both sides to loosen the lower handles (2) on both sides.
- Move the lower handles to the operating position. You may raise or lower the handle to a position comfortable for you. There are 3 positions (3) for you to choose. Release the handle knobs to lock the lower handle into position.

Note: Ensure both sides are set at the same position for proper assembly.

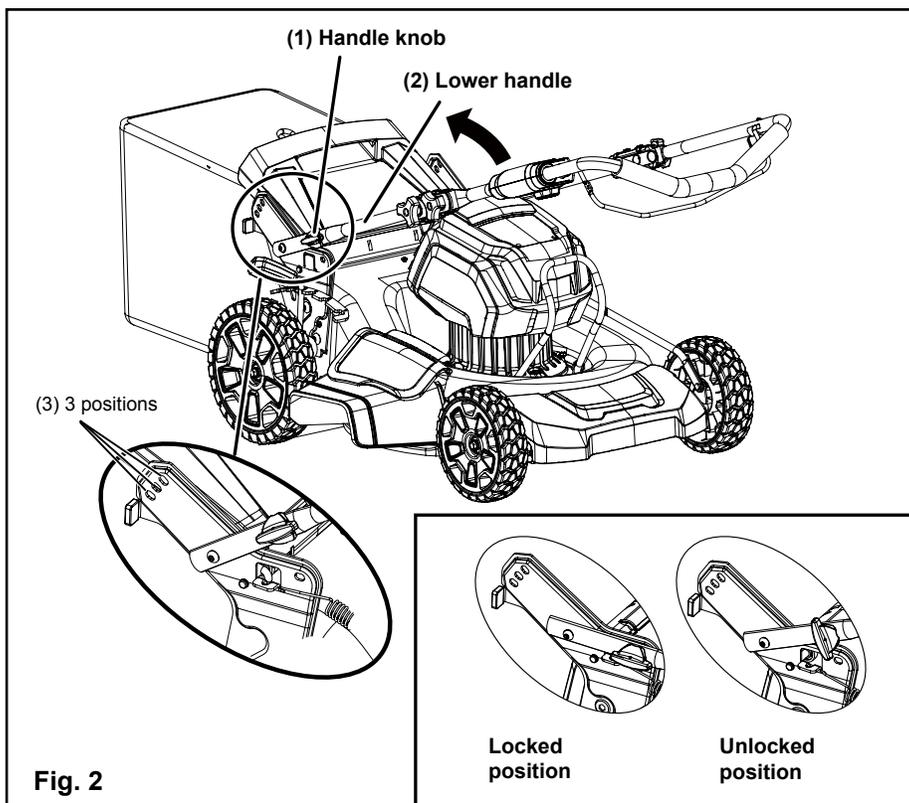


Fig. 2

ASSEMBLY INSTRUCTIONS

INSTALLING THE UPPER HANDLE (See Figure 3)

- Align the mounting holes on the upper handle (1) and the lower handle (2). Insert the carriage bolts (3) and use the knobs (4) to tighten them. Repeat the operation on the other side.

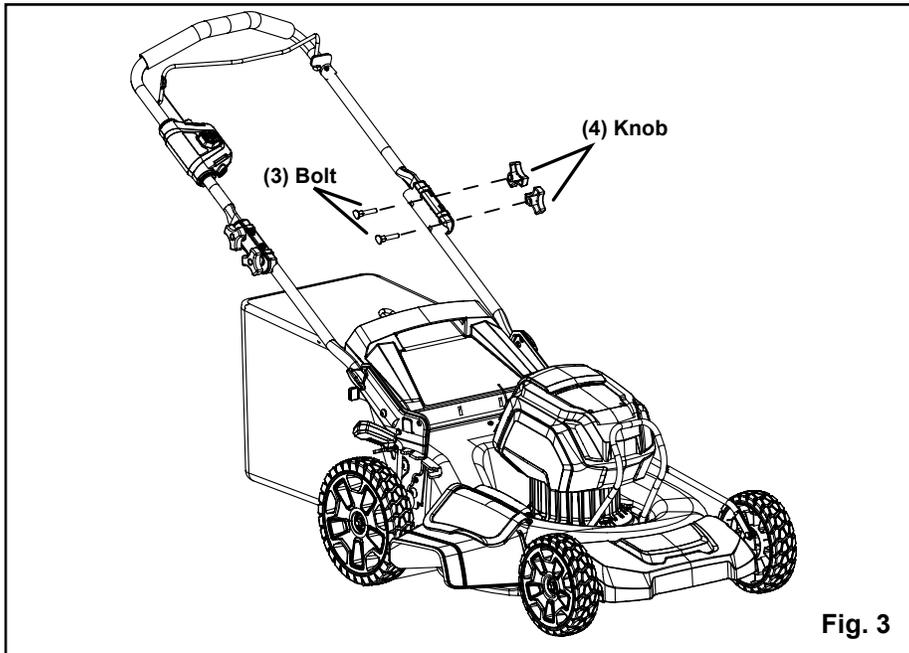


Fig. 3

ASSEMBLY INSTRUCTIONS

INSTALLING THE GRASS CATCHER BAG (See Figure 4)

- Lift the rear discharge door (1).
- Lift the grass catcher by its handle (2) and place under the rear discharge door so that the hooks (3) on the grass catcher are seated on the door rod (4).
- Release the rear discharge door. When installed correctly, the hooks on the grass catcher will extend through the openings on the rear discharge door.

NOTE: When using the grass catcher, do not install either the side discharge deflector or the mulching plug.

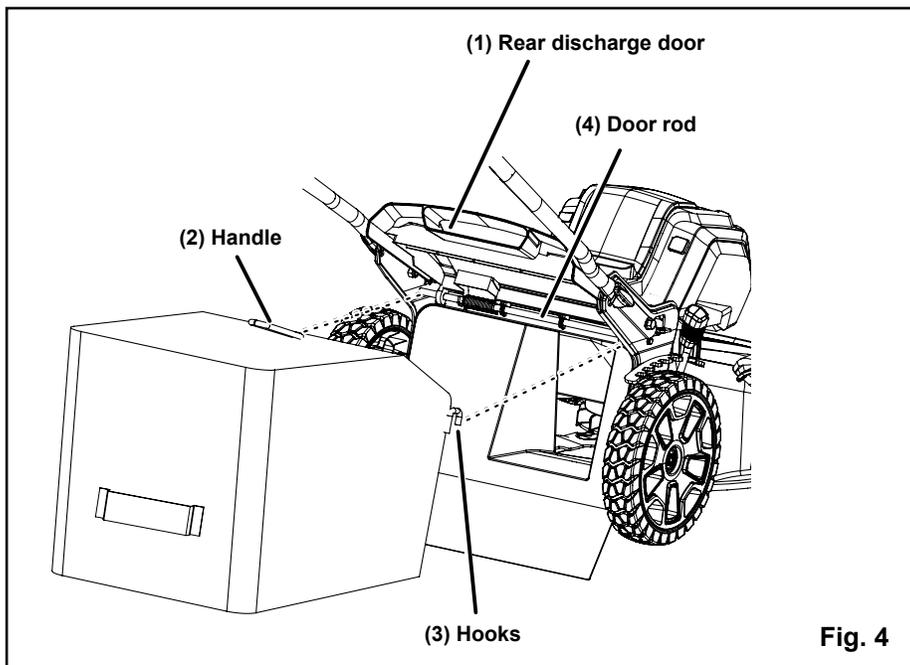
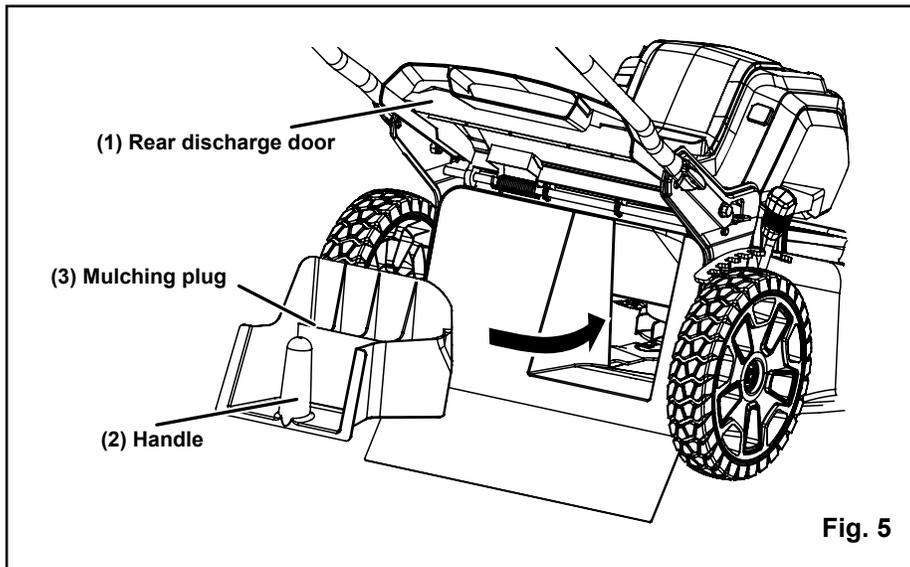


Fig. 4

ASSEMBLY INSTRUCTIONS

INSTALLING/REMOVING THE MULCHING PLUG (See Figure 5)

- To remove the mulching plug, lift the rear discharge door (1).
- Grasp the handle (2) of the mulching plug. Lift and pull the mulching plug out using the handle.
- The mulching plug (3) is inserted at an angle, so it requires some force to remove it.
- The mulching plug must be removed in order to install the grass catcher bag.
- The mulching plug must be re-installed when the grass catcher bag is removed.



ASSEMBLY INSTRUCTIONS

INSTALLING SIDE DISCHARGE CHUTE (See Figure 6)

- Lift the side discharge cover (1).
- Align the grooves (2) on the discharge chute (3) with the pins (4) on the underside of the discharge cover (1).
- Lower the discharge chute until the hooks on the mower deck are secured in the openings in the discharge chute.
- Release the side discharge cover.

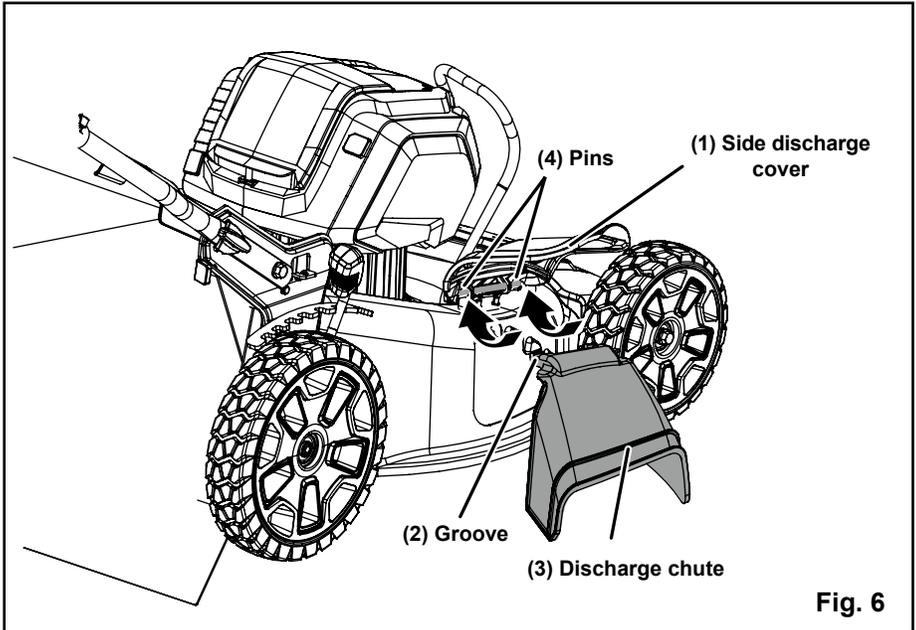
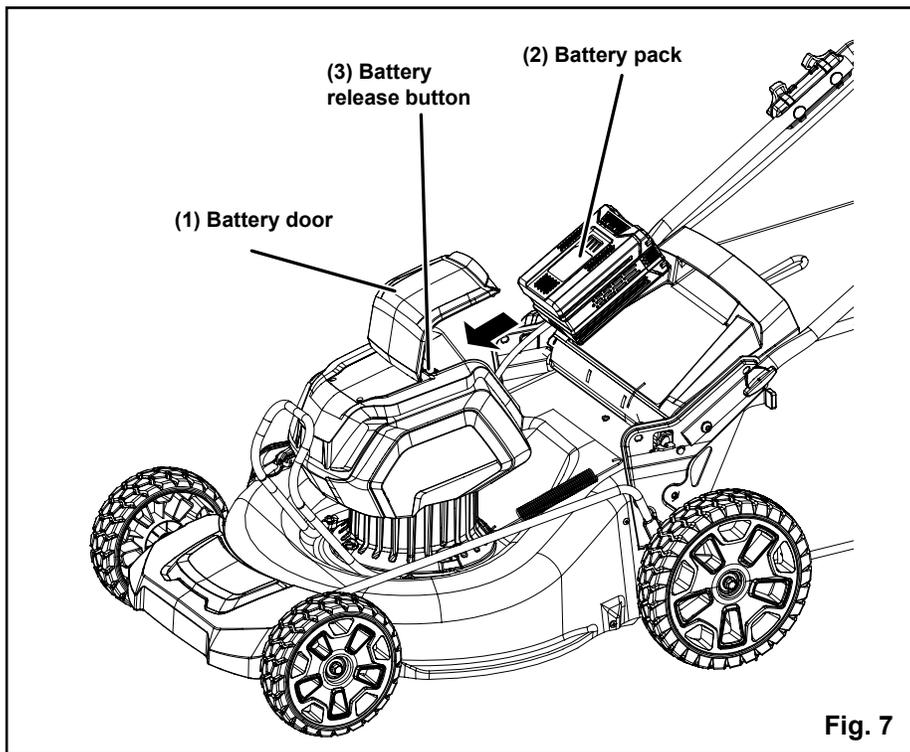


Fig. 6

ASSEMBLY INSTRUCTIONS

TO INSTALL BATTERY PACK *(See Figure 7)*

- Lift and hold up the battery door (1).
- Align the battery (2) with the mower's battery port.
- Make sure the battery release button (3) snaps in place and that battery is fully seated and secure in the mower before beginning operation.
- If the machine is not going to be used immediately, remove the battery.
- Close the door.



TO REMOVE BATTERY PACK *(See Figure 7)*

- Release the bail lever to stop the mower.
- Open the battery door.
- Press the battery release button (3) on the mower. This will cause the battery to raise out of the tool slightly.
- Remove battery from the mower.

OPERATING YOUR LAWN MOWER

STARTING/STOPPING THE MOWER (See Figure 8)

To start the motor:

- Open the battery door.
- Insert the battery.
- Press and hold the safety lock-out button (1). (See figure 8. A)
- Pull the bail lever (2) upward to the handle to start the mower and release the button. (See figure 8. B)

To stop the motor:

Release the bail lever.

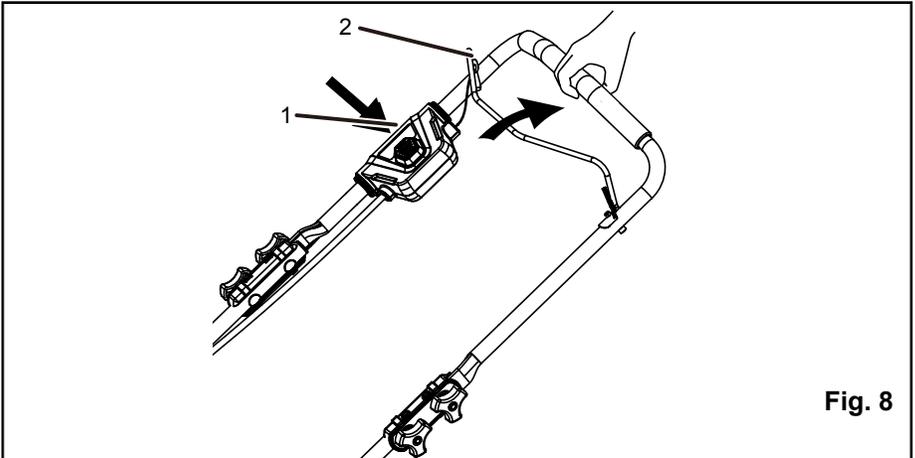


Fig. 8

Soft-Start

This LI-ION mower is equipped with a “soft-start” feature. When initially starting up, the mower will take approx. 3 seconds to get up to full speed. If the mower does not initially start: Remove the battery and check under the mower deck to ensure there is nothing obstructing the blade and that the blade can spin freely by hand. Even a small amount of grass on start up will prevent the “softstart” from turning the mower on.

CAUTION

Do not attempt to override the operation of the safety lock-out button or bail 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.

INSPECT THE CUTTING AREA. Remove all stones, sticks, wire, bones, and other debris that might be thrown by the rotating blades.

OPERATING YOUR LAWN MOWER

FUNCTION BUTTON (See Figure 9)

This lawn mower is equipped with a function button on the rear end of the power head. This button (1) is a manual overdrive button that changes the RPM.

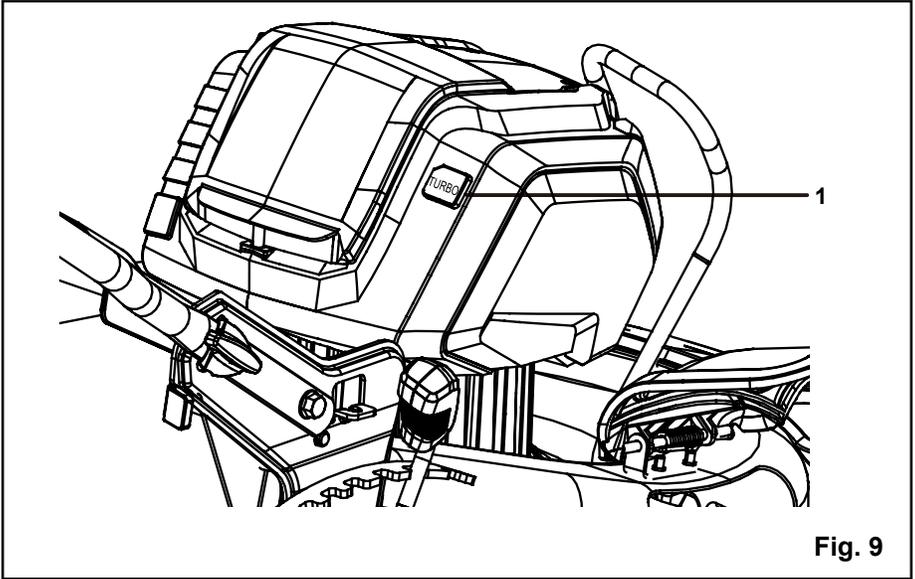


Fig. 9

Press this button, the indicating light will be on and the mower will be in the high-speed. You can mow more efficiently when the grass is very thick.

Press this button again, the indicating light will be off and then your mower will be in the auto mode. You can mow slowly and this mode helps to save the energy and makes your mower run for a longer time.

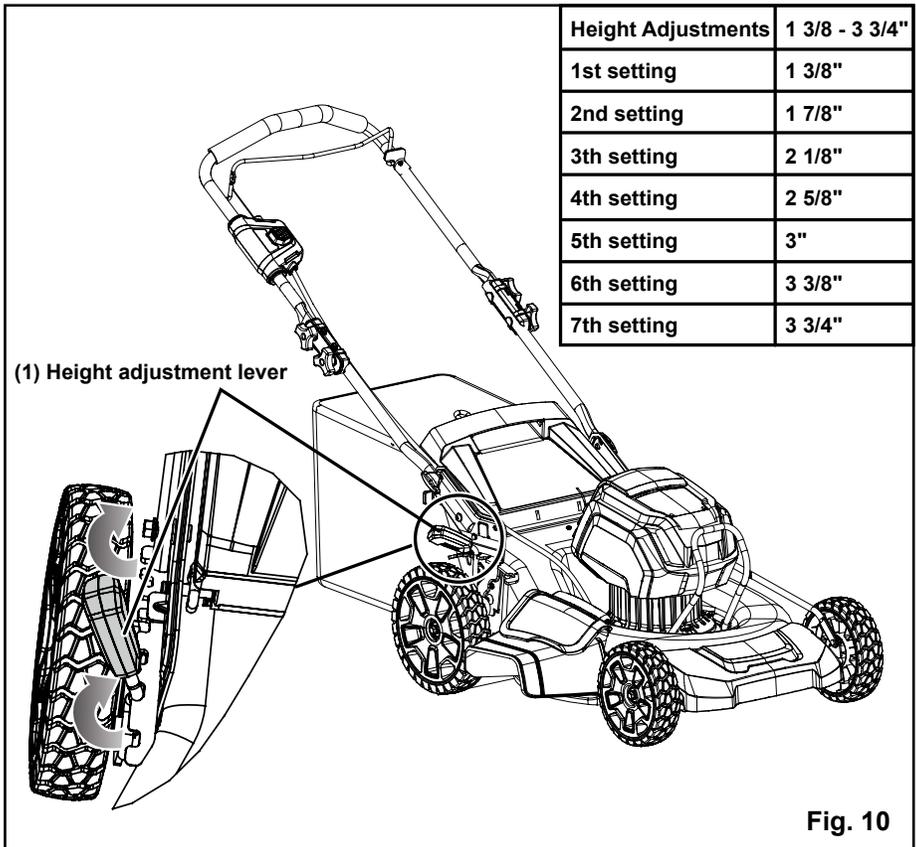
OPERATING YOUR LAWN MOWER

CUTTING HEIGHT ADJUSTMENT (See Figure 10)

When shipped, the wheels on the mower are set to a low-cutting position. Before using the mower for the first time, raise the cutting position to the height best suited for your lawn. The average lawn should be between 1 1/2" to 2" (3.8 to 5 cm) during cool months and between 2" and 3 1/2" (5 cm to 8.3 cm) during hot months.

To adjust the blade height:

- To raise the blade height, grasp the height adjustment lever (1) and move it toward the back of the mower.
- To lower the blade height, grasp the height adjustment lever (1) and move it toward the front of the mower.



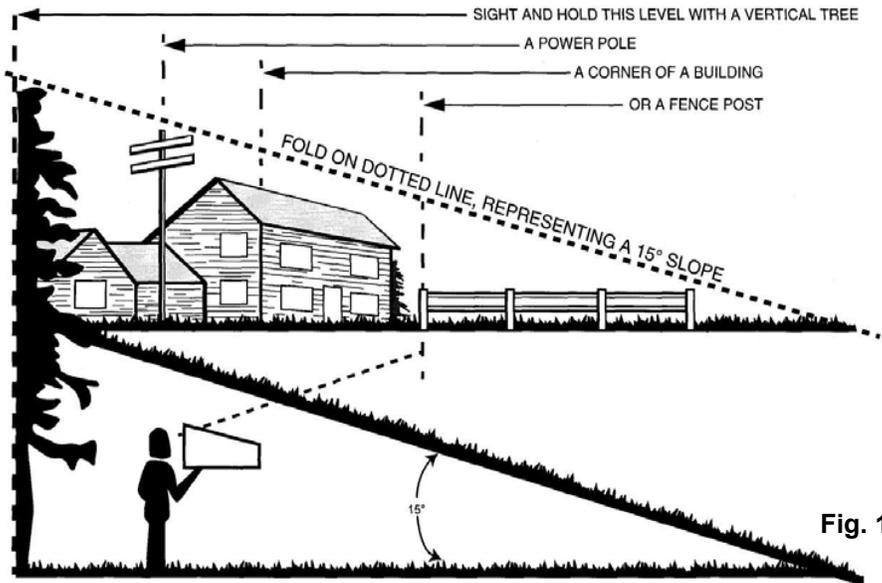
OPERATING YOUR LAWN MOWER

SLOPE GAUGE (See Figure 11)

⚠ WARNING

Slopes are a major factor related to accidents involving slips and falls, which can result in severe injury. Operating the mower on a slope requires extra caution. If you feel uneasy on a slope, do not mow it. For your safety, use the slope gauge that is included as part of this manual to measure slopes before operating this unit on a sloped or hilly area.

- Mow across the face of a slope, and never up and down. Exercise extreme caution when changing direction on a slope.
- Watch for holes, ruts, rocks, hidden objects, or bumps that may cause a slip or a trip. Tall grass can hide obstacles.
- Always be sure of your footing. If you feel like you are losing your balance, release the blade/motor control handle immediately. The blade will stop rotating within 3 seconds.
- Do not mow near drop-offs, ditches, or embankments, because you could lose your footing or balance.
- Do not mow a slope that has an angle of greater than 15° , as determined using the slope gauge.
- Do not mow wet or damp grass. Unstable footing can cause slipping.



⚠ WARNING

Do not mow a slope that has an angle of greater than 15° (a rise of approximately 2 1/2 feet [0.75 m] every 10 feet [3 m]). Mow across the face of a slope, and never up and down.

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 between 2" to 3 1/4" (5 cm to 8.3 cm) long during hot months. If there is growth, the lawn should be cut in the fall.

MULCHING TIPS

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

- Release the bail lever to turn the mower OFF when crossing any graveled area (stones can be thrown by the blade).
- Set mower to the highest cutting height when mowing on uneven ground or in tall weeds.
- For effective mulching, do not cut wet grass, because 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 longer than 4" (10 cm), mow the lawn twice in order to reduce the grass height to a maximum of 3 1/4" (8.3 cm).
- Walk at a steady pace. Overlap the cutting rows. Do not 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 remove the battery. 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.

OPERATING YOUR LAWN MOWER

EMPTYING THE GRASS CATCHER BAG (See Figure 12)

- Stop mower, allow blades to completely stop, and remove the battery.
- Lift the rear discharge cover.
- Lift the grass catcher bag by its handle to remove from mower.
- Empty grass clippings.
- Lift the rear discharge cover and reinstall the grass catcher bag as described earlier in this manual.

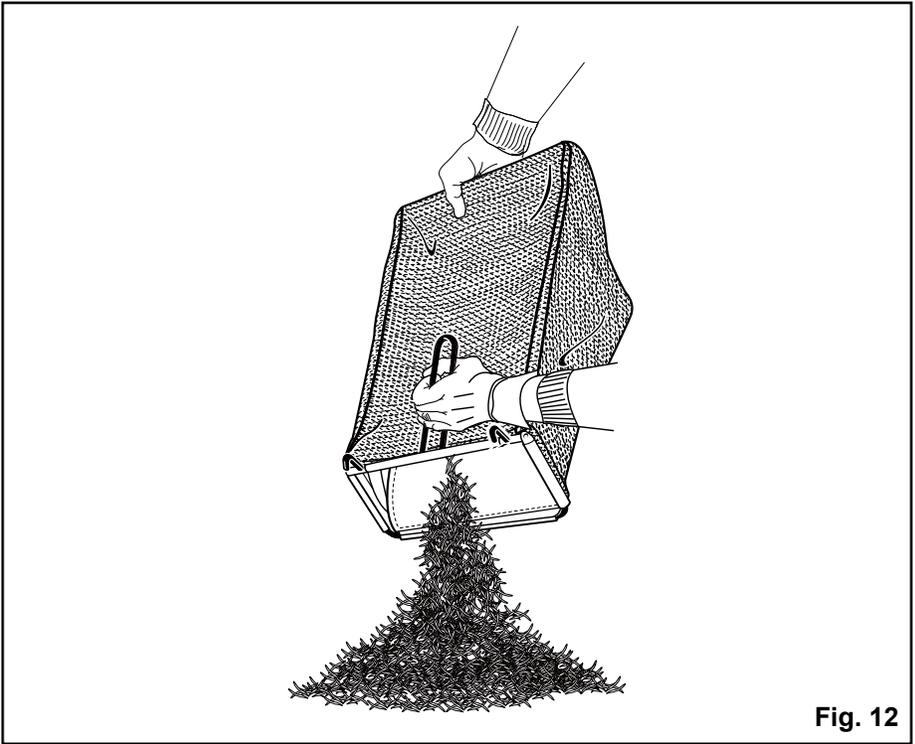


Fig. 12

MAINTENANCE

REPLACING THE CUTTING BLADE (See Figure 13-14)

⚠ WARNING

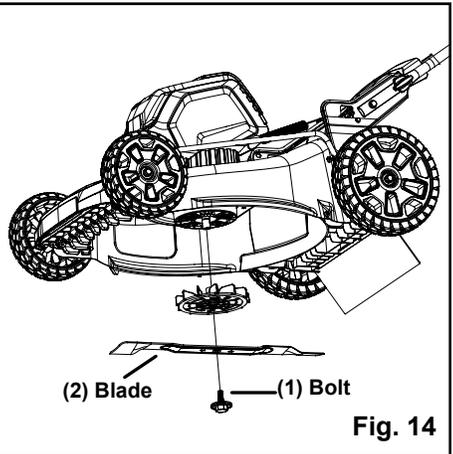
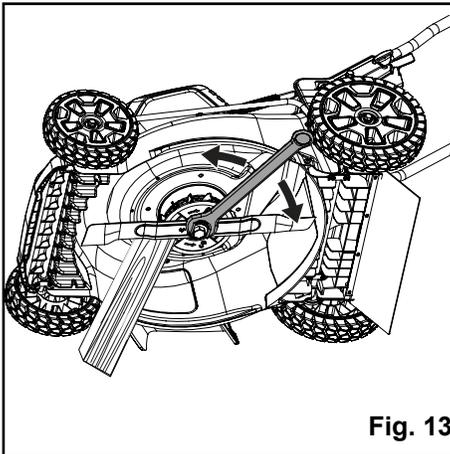
Always protect your hands by wearing heavy gloves and/or wrapping the cutting edges with rags or other materials when performing any maintenance on the blades. ALWAYS remove the battery when servicing or transporting the mower.

Use only a GREENWORKS replacement blade (Item#: 2908902; Item#:2903402).

Heavy duty blade(Item#: 2908902) is the optional blade and has better bagging performance and mulching. But mower running time is a little short.

General blade(Item#:2903402) is equipped in the mower. It is more efficient in energy saving. But mower running time is longer.

- REMOVE BATTERY.
- 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 bolt (1) is being removed.
- Using an adjustable wrench or 27 mm socket, loosen the bolt (1) and remove the blade (2). Turn the bolt "COUNTERCLOCKWISE" to loosen it and "CLOCKWISE" to tighten it.
- Remove the bolt (1) and the blade (2).
- To re-install the blade, position the blade with the cutting edges toward the ground. Assemble the bolt as shown. Using a 27 mm socket or wrench, turn the blade nut "CLOCKWISE" in order to secure the blade.



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 34 of this manual.

MAINTENANCE

CLEANING THE MOWER

W A R N I N G

In order to reduce the risk of electric shock, do not expose the mower to water. The underside of the mower deck should be cleaned after each use, because grass clippings, leaves, dirt, and other debris will accumulate, which will cause rust and corrosion.

Remove any build-up of grass and leaves on or around the motor cover (do not use water). Occasionally wipe the mower clean with a dry cloth. If debris builds up on the underside of the mower during use, stop the motor, disconnect it from the battery, and then tilt the mower on its side, and scrape it clean using an appropriate tool.

MAINTENANCE

STORING THE MOWER

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

- Clean the mower as described in the previous section.
- Inspect the blade, and replace it or sharpen it, if required (refer to the Maintenance section).
- Store the mower in a dry, clean location. Do not store it next to corrosive materials, such as fertilizer or rock salt.
- Store the mower indoors, in a cool, dry place, out of the reach of children. Do not cover the lawn mower with a solid plastic sheet. Plastic coverings trap moisture around the mower, which causes rust and corrosion.
- Remove the battery and store it in a cool dry location, if possible. Charge the battery every two months when not in use in order to increase its life.
- Remove the battery and store in a secure location out of the reach of children.

⚠ WARNING

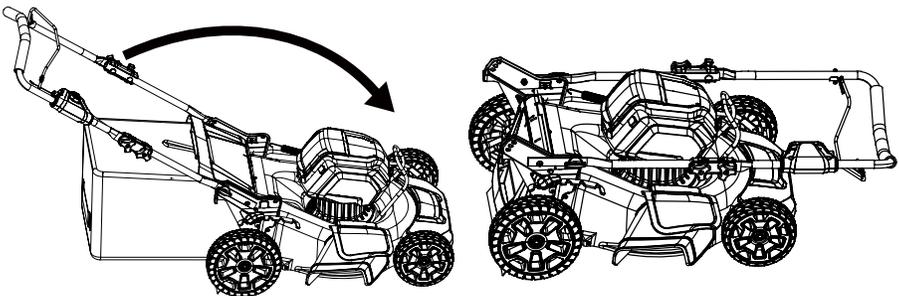
This battery must be charged every 3 months while in storage to maintain maximum capacity.

VERTICAL STORAGE FUNCTION

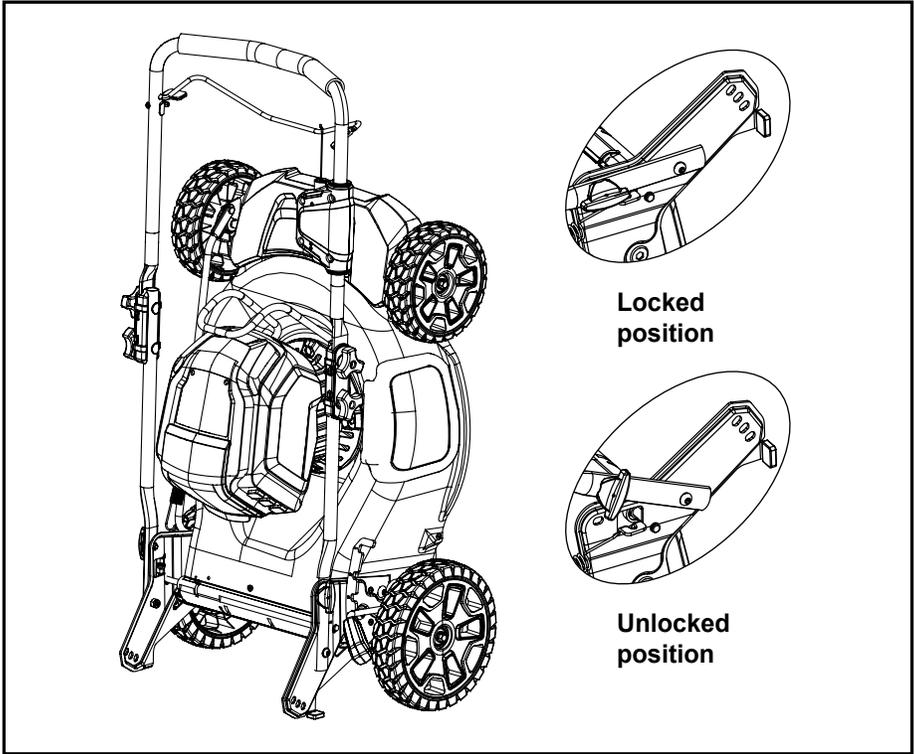
- Remove the battery from the mower.
- Remove the grass catcher bag.
- Rotate the handle knobs to the unlocked position.
- Lower the handle assembly and rotate the handle knobs to the locked position.
- Lift the mower by the front end to the vertical position.

⚠ WARNING

Always remove the battery from the mower before placing the unit in the vertical storage position.



MAINTENANCE



SERVICE

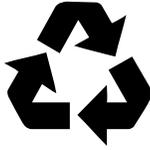
STORING THE MOWER ON VERTICAL FUNCTION

- When servicing the mower, use only identical replacement parts that are available from the manufacturer. In order to obtain replacement parts, call the toll-free helpline, at 1 (855) 470-4267. 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. Remove the battery when making any adjustments or when any of the four wheels must be lifted off the ground.
- Follow the instructions for lubricating and changing accessories.
- 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.
- Check the blade and motor mounting bolts for proper tightness frequently. 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. Thoroughly inspect the mower for any damage. Repair any damage before operating the mower.
- The grass catcher components, discharge cover, and trail shield are subject to wear and damage, which could expose moving parts or allow objects to be thrown. As a safety precaution, check these components frequently, and immediately replace any parts that show signs of wear, or that are cracked or broken. Use original equipment manufacturer's (OEM) parts only, as listed in this manual.
- When it is not in use, store the mower indoors in a dry area, and out of the reach of children.

WARNING

Always remove battery when servicing or transporting the mower.

ENVIRONMENTALLY SAFE BATTERY DISPOSAL



The batteries used in this mower's battery pack contain the following toxic and corrosive material:
LITHIUM-ION.

⚠ WARNING

Toxic materials must be disposed of in a specified manner in order to prevent contamination of the environment. Before disposing of damaged or worn out Lithium-Ion battery packs, contact your local waste disposal agency for information and specific instructions. Take the battery to a local recycling and/or disposal centre that is certified for disposal. If the battery pack cracks or breaks, whether it leaks or not, do not recharge it and do not use it. Dispose of it and replace it with a new battery pack. **DO NOT ATTEMPT TO REPAIR IT!**

Follow these instructions in order to avoid injury and the 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 components of the battery pack.
- Do not attempt to open the battery pack.
- If a leak develops, the electrolytes that are released are corrosive and toxic. Do not get the solution in the eyes or on the skin, and do not swallow it.
- Do not place batteries in regular household trash.
- DO NOT incinerate batteries.
- DO NOT place batteries where they will become part of any waste landfill or municipal solid waste stream.
- Dispose of batteries at a certified recycling or disposal center.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The mower does not start.	The battery is not charged.	Charge the battery.
	The switch is defective.	Replace the switch (call the tollfree helpline, at 1 (855) 470-4267.
	Grass jammed between the deck and blade.	Remove battery; check under deck for jams.
	The battery is not fully inserted in the mower.	Check the connection between the battery and the mower. Make sure the battery clicks into place.
The mower cuts the grass unevenly.	Battery may require service or replacement.	Call toll free helpline, at 1 (855) 470-4267 or replace battery.
	The lawn is rough or uneven.	Check the mowing area.
The mower does not mulch properly.	The cutting height is not set properly.	Move the wheels to a higher setting.
	Wet grass clippings are sticking to the underside of the deck.	Wait until the grass dries before mowing.
The mower is hard to push.	The mulching plug is missing.	Install the mulching plug.
	The grass is too tall, or the cutting height is too low.	Raise the cutting height.
The mower is excessively noisy and vibrates.	The rear of the grass catcher bag is dragging in thick grass.	Empty the grass clippings from the grass catcher bag.
	The motor shaft is bent.	Stop the motor, and inspect for damage.
	The blade is unbalanced.	Repair before restarting. If vibration persists, call the toll free helpline 1 (855) 470-4267.

LIMITED WARRANTY



GREENWORKS™ hereby warranties this product, to the original purchaser with **proof of purchase**, 2 year commercial power train warranty, 1 year commercial battery warranty 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.

****WARRANTY IS NOT TRANSFERABLE AND ONLY AVAILABLE TO THE ORIGINAL PURCHASER WITH ORIGINAL PURCHASE RECEIPT OR PROOF OF PURCHASE**

2 Year Limited Power Train Warranty Coverage:

- Motor
- PCB Boards
- Gear Box
- 2 years from the date of purchase (non transferable)

1 Year Limited Battery Warranty Coverage:

- Greenworks Commercial Battery Packs (GL 200, GL 250, GL 300, GL 400, GL 500, GL 900)
- 1 year from the date of purchase (non transferable)

60 Days Limited Wearable Parts Warranty Coverage:

- Bars
- Blades
- Guards
- Chains
- Bump Feed Heads
- Tines
- 60 Days from date of purchase (non transferable)

Warranty Exclusions, Limitations and Rights:

1. All warranties may not be transferred by the consumer to any subsequent purchaser.
2. Parts or components not supplied by the warrantor, or parts or components that have been modified.
3. Any failure resulting from the use of improper tools or improper repair procedures.

LIMITED WARRANTY

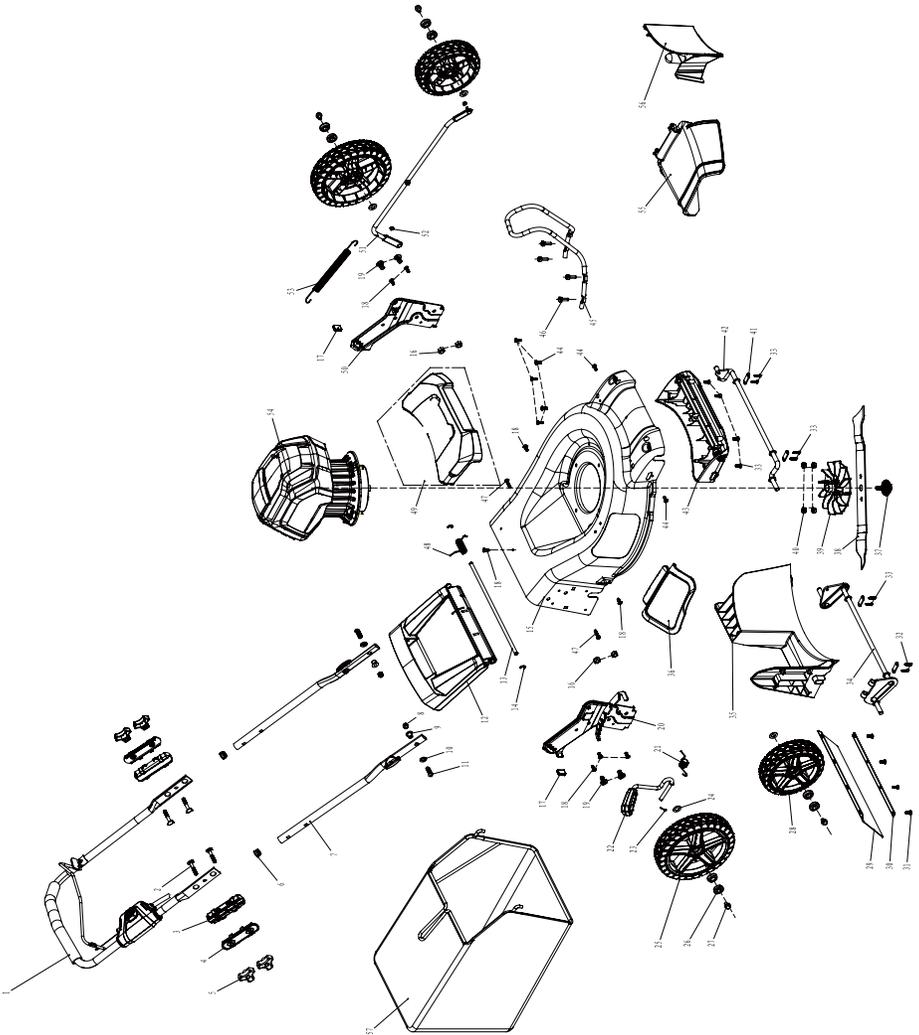
4. Any failure or part that has become inoperative due to accident, impact, abuse, misuse, neglect, mishandling, dulling of cutting edges, or failure to operate the product in accordance with the information provided in the instruction manual supplied with the product.
5. Normal deterioration of the exterior due to use or exposure, and any repairs made necessary by normal wear, improper maintenance, improper lubrication, improper storage, dirt, abrasives, impact, moisture, water, rain, snow, rust, corrosion, varnish, or other similar conditions.
6. Routine maintenance items such as lubricants, blade sharpening.
7. The unit, if it has not been operated and/or maintained in accordance with the owner's manual.
8. Improper voltage for electric products and batteries that have been exposed to temperatures beyond those specified in the product's instruction manual, batteries that have not been properly charged or batteries that have reached their useful life.

Warranty, Technical or Parts & Service is available by calling our toll-free helpline @ **1 855 470-4267** or visit our website **WWW.GREENWORKSTOOLS.COM/82V-COMMERCIAL/**

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



PARTS LIST

Item No.	Part No.	Description	QTY
1	311051530	Upper handle assembly	1
2	322011043A	Bolt	4
3	341031530	Fixed-box(upper handle)	2
4	341021530	Fixed-box(upper handle)	2
5	3410835-4	Knob	4
6	342031530	Tube plug	2
7	311061530	Lower handle	1
8	32201467	Nut M8	2
9	322011530	Spacer block	2
10	32233684	Washer M8	2
11	322031179	Bolt M8*30	2
12	341251179	Rear cover	1
13	332021179	Rear cover axle	1
14	3290506	C-clip 8	2
15	333011179A	21" Deck	1
16	32910131	Nut M10	4
17	342031179	Rubber pad	2
18	322021519	Screw	8
19	3221637	Bolt M10*20	4
20	333051519A	Height adjustment bracket (right)	1
21	33401222	Spring	1
22	311111179C	Height adjustment bar assembly	1
23	3290135	Cotter pin	1
24	332211179	Washer M8	4
25	341271179C	10" Wheel assembly	2
26	321011179A	Bearing	8
27	32202390	Bolt M8*16	4
28	341281179C	8" Wheel assembly	2
29	342011179	Rear shield	1

PARTS LIST

Item No.	Part No.	Description	QTY
30	332041179	Press board for rear shield	1
31	3220505-1	Screw	4
32	32204113	Screw	12
33	32202509	Screw	2
34	311011179A	Rear wheel axle	1
35	341011179A	Back panel	1
36	311081179A	Side discharge cover assembly	1
37	341261179A	Blade bolt	1
38	333041179B	21" Blade	1
39	341191179-1	Fan	1
40	32243563	Nut	4
41	33307470	Sheeting for wheel axle	4
42	311021179A	Front wheel axle	1
43	341021179	Dash panel	1
44	3220951	Screw	7
45	333021530	Bracket for power head	1
46	322031113	Bolt M6x16	4
47	322011519	Screw	2
48	332111179	Torsional spring for rear cover	1
49	311091179D	Bumper assembly	1
50	333041519A	Height adjustment bracket (left)	1
51	333031179A	Height adjustment link bar	1
52	3220343	Nut M6	6
53	332011179	Height adjustment tension spring	1
54	311021530	Power head assembly	1
55	341241179	Side discharge chute	1
56	341351179A	Mulching plug	1
57	312011179D	Grass catcher bag assembly	1

GREENWORKS

COMMERCIAL

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Mooresville, NC 28115**

TOLL-FREE HELPLINE: 1 (855) 470-4267

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