

7406102/7406902/ 7407002

ΕN

Zero-Turn Mower

OPERATOR MANUAL



RZ42M60/ RZ42M80/ RZ42M82 (7407002)

www.greenworkstools.com www.greenworkscommercial.com

REGISTRATION:

 As the original owner, be sure to register your product (vehicle, batteries & chargers) at following product pages on our Greenworks website(s):

ERP	MODEL	VOLTAGE	DESCRIPTION	PRODUCT PAGES	QR CODE
7406102	RZ42M60	60-volt	Greenworks Pro 42-inch 60-volt Zero Turn Vehicle	https://www. greenworkstools.com/ pro-60v-42-inch-rz-zero- turn-mower-7406102	
7406902	RZ42M80	80-volt	Greenworks Pro 42-inch 80-volt Zero Turn Vehicle	https://www. greenworkstools.com/ pro-80v-42-inch-rz-zero- turn-mower-7406902	
7407002	RZ42M82	82-volt	Greenworks Pro 42-inch 82-volt Zero Turn Vehicle	https:// greenworkscommercial. com/pro-82v-42- inch-rz-zero-turn- mower-7407002	

- WARNING: To reduce the risk of injury, the user must read and understand the Operator's Manual before using this product. Save these instructions for future reference.
- We are constantly improving our machines so please find the latest information on it online. Printed manuals can be out of date, so for latest tips and safety always check the online manuals before using the machine.
 - Troubleshooting guides are also online or in the app [link] which can be found in the app store.
 - Videos of uncrating, best practices, and routine maintenance can be found online.

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20	Serial Number(s)

1 RISK LEVELS

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

SYM- BOL	SIGNAL	MEANING
	DANGER	Indicates an imminently haz- ardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazard- ous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazard- ous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Sym- bol) Indicates a situation that may result in property dam- age.

2 READ ALL INSTRUCTIONS

▲ WARNING

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.

A DANGER

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.

▲ WARNING

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

A WARNING

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

A WARNING

- Carefully read all instructions on the mower and in the manual before attempting to assemble and operate the mower.
- For safe operation, read, understand, and follow all instructions in this manual.
- Become familiar with all controls and their proper operation. Know how to stop the mower and how to disengage the power in an emergency.
- Keep this manual in a safe place for reference and consult it regularly.

2.1 OPERATOR

- Only allow responsible, capable adults who are familiar with the instructions to operate this machine.
- Safe operation requires your full attention and capabilities.
- Always look where you are going and be aware of your surroundings.
- · Listen to the machine and be aware of any change.
- Feel the machine and its responses from both your inputs and the environment.
- Remain focused on your task.
- Always wear proper eye protection that complies with the latest safety standards in order to reduce the risk of eye injury while operating or performing any adjustment or repair. See ANSI Z87.1.
- Do not operate machine unless discharge guard or other safety devices are in place and working.
- Always wear a face mask or a dust mask while operating the mower in a dusty environment.
- Always dress properly. The wearing of protective gloves and safety footwear is recommended.
- Do not wear radios or music headphones while operating the machinery.
- Do not operate the equipment while wearing sandals, tennis shoes, sneakers, shorts or any type of loose-fitting clothing. Long hair, loose clothing or jewelry may get tangled in moving parts. Always wear long pants, safety glasses, ear protection and safety shoes while operating this machine.
- Stay alert! Do not operate the mower when you are tired. Do not operate the mower while under the influence of alcohol or drugs. Pay attention to what you are doing. Use common sense.
- · Never carry passengers.
- Follow the manufacturer's recommendation for wheel weights or counterweights.

2.2 MACHINE

- · Never operate a poorly maintained machine.
- · Always keep safety shields and covers in place.
- Follow daily and weekly checklists, making sure electrical connections are secured and bolts are tightened.

- · Replace damaged parts immediately.
- Never operate mower without a proper trail shield, discharge cover, 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.
- Repair or replace any damaged components before restarting and operating the lawnmower.
- · Only use approved replacement parts.
- Minimize exposure to water. Do not drive into water. Do not leave in rain. Do not clean with pressurized water or hose.
- Always store your lawnmower indoors. When not in use, the mower should be stored indoors in a dry and locked place, out of reach of children.

2.3 MOWING AREA

- Before mowing any area, thoroughly inspect the area for any hazards. Walk the area to ensure there is adequate traction and no holes, drop-offs, or hidden objects that could cause issues. Clear the area of objects such as rocks, wire, toys, etc., which could be thrown by the blades.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Plan your mowing pattern in such a way as to avoid discharging material toward roads, sidewalks, bystanders, vehicles, windows, etc. Do not discharge material against a wall or obstruction. Doing so may cause the discharged material to ricochet back toward the operator.
- Do not mow anything but grasses.
- Stop the blades when crossing dirt, gravel, or paved surfaces.
- Avoid dangerous environments. Do not operate the mower in the rain or in wet or damp grass. To reduce the risk of electric shock, do not expose to water or operate on wet ground.

2.4 MOWING

- For riding mower models, always remain seated while operating machine.
- · Do not operate on inclines greater than 15 degrees.
- Mow only in daylight or in good artificial light. Never rush a mowing job.
- Never attempt high-speed maneuvering, especially in crowded, congested areas or on slopes.
- 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 100ft (30m) away from the mower while it is in operation. Stop the motor immediately if someone enters the mowing area.
- Look down and behind before and while moving backwards.
- Slow down before turning.

- Do not mow in reverse unless absolutely necessary.
- When moving in reverse, SLOWLY pull right and left Drive Control Levers rearward and avoid sudden movements. Rapid movement of the Drive Control Levers in either direction could result in a reaction of the machine that can cause serious injury.
- Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade can amputate hands and feet.
- If the mower starts to vibrate excessively, stop the motor and check for the cause immediately. Excessive vibration is generally a sign the mower is not functioning properly.
- Stop the motor and wait until the blade comes to a complete stop before 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.
- If lawnmower strikes a foreign object, stop the machine, rotate the ignition switch to "OFF" position, then, if it is safe, inspect for damage.
- · Don't force the lawnmower.
- Do not use the mower for any job except that for which it is intended.

2.5 SERVICING

- · Turn off the machine before servicing or removing blade.
- Do not reach under blade guard. Keep hands, feet, and clothing way from rotating blades.
- To reduce personal risk and damage to the machine, never clean with pressure washer.
- Maintain your mower. Keep cutting edges sharp and clean to ensure the best performance and safe operation.

2.6 CHILD SAFETY

Tragic accidents can occur if the operator is not aware of the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- Never leave machine unattended with key in switch, especially with children present.
- Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
- 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.
- Always disengage deck blade switch and turn key to "OFF" position and remove key.
- Stay alert, and turn the mower off if a child or any other person enters the mowing area.
- 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.

- Before and while backing, look behind and down for small children.
- Never carry children on the mower with you, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.

2.7 USE A RAMP

- Use extreme caution when loading and unloading this mower onto a truck or trailer with a ramp.
- Use only a single, full-width ramp. This provides a surface for the mower frame to contact if the unit starts to tip backwards. It also reduces the risk of a wheel going off and the machine tipping over.
- Do not exceed a 15-degree angle between the ramp and the ground or between the ramp and the trailer or truck.
- Become familiar with the mower's controls and confident in its smooth operation before attempting to drive it up or down a ramp.
- Use slow drive mode and drive carefully.
- Avoid any sudden movement of the controls and use only slow, even acceleration.

2.8 TOWING

- Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
- Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
- Never allow children or others in or on towed equipment.
- On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
- Travel slowly and allow extra distance to stop.

2.9 BATTERY AND CHARGER

- Do not recharge batteries in a confined or unvented area.
- Do not smoke, strike a match, or cause a spark in the vicinity of the battery during charging.
- Store indoors, and do not expose to rainwater. Avoid storing in direct sunshine.
- Do not charge batteries in rain or in wet location.
- When servicing, use only identical replacement parts.
- Only to be used with Greenworks Commercial 82V Batteries. See Parts Manual.
- Electrical maintenance should be performed by trained professionals ONLY.

2.9.1 BATTERY

 Battery-operated mowers and tools do not have to be plugged into an electrical outlet to run; therefore, they are always in operating condition. Be aware of possible hazards when not using your battery-operated mower or when changing accessories. Following this rule will reduce the risk of electric shock, fire, or serious personal injury.

- Do not place battery-operated machines or tools -- or the batteries themselves -- 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, like a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of an 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-operated machine should be charged in a location where the temperature is more than 0°C (32° F) but less than 45°C (113° F). To reduce the risk of serious personal injury, do not store outside or in vehicles.
- Charge batteries in an open, well-ventilated area away from spark and flames. Unplug charger before connecting or disconnecting battery to/from the charging port. Always wear safety glasses and protective clothing/gear. Use insulated tools.
- Incorrect battery cable routing could cause damage to the mower and battery cables. This can cause sparks, which can cause a battery gas explosion that will result in serious personal injury.
- Do not open or mutilate the battery. Mutilated batteries can release corrosive electrolytes which can cause damage to the eyes or skin. It may be toxic if swallowed.

3 SYMBOLS ON THE PRODUCT

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

Symbol	Name	Explanation		
V	Volt	Voltage		
А	Amperes	Current		
Hz	Hertz	Frequency (cycles per sec- ond)		
W	Watt	Power		
min	Minutes	Time		
/min	Per Minute	Revolutions, strokes, sur- face speed, orbits etc., per minute		

4

Symbol	Name	Explanation		
	Direct Current	Type or a characteristic of current		
n _o	No Load Speed	Rotational speed, at no load		
	Safety Alert	Precautions that involve your safety.		
	WARNING Wet Con- ditions	Do not expose the product to rain or moist conditions.		
	Read Opera- tor's Manual	To reduce the risk of injury, user must read and under- stand operator's manual be- fore using this product.		
Eye Protec-		Always wear eye protection with side shields marked to comply with ANSI Z87.1 when operating this equip- ment.		
	DANGER Keep Hands and Feet Away	To reduce the risk of injury, keep hands and feet away from rotating parts. Do not operate unless discharge cover or grass bag is in its proper place. If damaged, replace immediately.		
DANGER - Steep Slope Hazard		Use extra caution on slopes. do not mow slopes greater than 15 degrees.		
X	DANGER Thrown Deb- ris	Remove objects that can be thrown by the blade in any direction. Wear safety glasses.		
100' (30m) o	DANGER Keep By- standers Away	Keep all bystanders at least 100 ft. away.		
	Look around	Always look where you are going and be aware of your surroundings.		
	Keep children away	Never carry children on the mower with you. Keep chil- dren and animals out of the mowing area.		
H	No Reach	Do not reach hands or feet under mower deck.		

ENVIRONMENTALLY SAFE BATTERY DISPOSAL





The toxic and corrosive materials below are in the batteries used in this machine: Lithium-Ion, a toxic material.

▲ WARNING

Discard all toxic materials in a specified manner to prevent contamination of the environment. Before discarding damaged or worn out Li-ion battery, contact your local waste disposal agency, or the local Environmental Protection Agency for information and specific instructions. Take the batteries to a local recycling and/or disposal center, certified for lithium-ion disposal.

▲ WARNING

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

- Cover the terminals of the battery with heavy-duty adhesive tape.
- DO NOT try to remove or destroy any of the battery pack components.
- DO NOT try 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 put these batteries in your regular household trash.
- DO NOT incinerate.
- DO NOT put them where they will become part of any waste landfill or municipal solid waste stream.
- Take them to a certified recycling or disposal center.

5 PROPOSITION 65

▲ WARNING

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

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

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

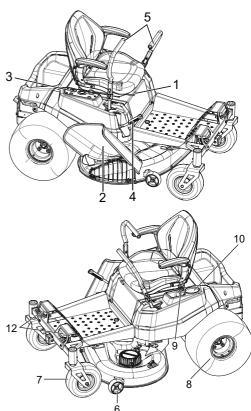
Save these instructions.

6 DESCRIPTION

6.1 PURPOSE

This machine is used for domestic lawn mowing. The cutting blade should be parallel to the ground. All four wheels must touch the ground while mowing.

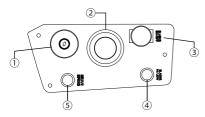
6.2 OVERVIEW



- 1 Seat adjustment lever
- 2 Side discharge chute
- 3 Control panel
- 4 Deck height adjustment lever
- 5 Steer control lever
- 6 Anti-scalp wheels
- 7 Front wheels
- 8 Rear wheels
- 9 USB port
- 10 Cup holder

7.1 CONTROL PANEL

7.1.1 CONTROL PANEL



#	Name	Function
1	Power switch with start key	The power switch is used to turn the mower on and off. The start key must be inserted before the switch can be operat- ed.
2	Digital dis- play	This display shows important electrical system information. Refer to the Electrical section for complete information.
3	ON/OFF for blade (PTO)	Pull the blade engage knob up to activate the mower's cutting blades. Push the knob down to stop the cutting blades.
4	High/Low for blade speed	High blade mode is a higher blade speed for cutting thicker grass, while low blade mode provides lower blade speed for lower battery consumption on thinner, drier grass areas.
		Mowing time will be increased when mowing in low blade mode.

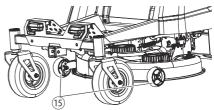
#	Name	Function
5	High/Low for driving speed	Allows operators to select a comfortable driving speed. Pressing it to "High Speed"" position means that the maxi- mum drive speed will be 8 mph. Pressing it to "Low Speed" position means that the maximum drive speed will be 4 mph. Press it to "Low Speed" position for in- experienced operators or when trimming around objects, buildings and other ob- stacles.
		Get comfortable with mower before us- ing "High Speed" setting. The maxi- mum speed may be adjusted at any time, whether the mower is in motion or not.

7.2 STEERING CONTROL LEVERS

The two levers control the mower's speed, direction, stopping, neutral lock, and parking brake. Levers are used to steer, accelerate, decelerate, stop, and change direction. When the control levers are in the park brake position, the mower will not move.

7.3 ANTI-SCALP WHEELS

Anti-scalp wheel kits are standard on Greenworks Commercial units. These anti-scalp wheels (23) are designed to minimize scalping when mowing on rough, uneven terrain. After setting the cutting height, adjust the anti-scalp wheels so they extend below the deck but do not contact the ground. They should always be at least 1/4" to 3/4" below the deck. With the unit sitting on a flat level surface, the wheel position can be adjusted up or down as needed from 3/4" to 1-3/4" below the blade surface. Move the wheels up or down - using the different axle mount holes in the wheel mount bracket (if applicable on model).



7.4 NEUTRAL BYPASS KNOB

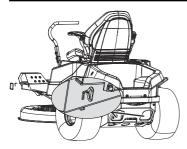
- 1. Pull the neutral bypass knobs outwards and then downwards to unlock the wheel.
- 2. Move the neutral bypass knobs back into position to lock the wheels.

A WARNING

Never drive mower with the neutral bypass knob working. Always install the neutral bypass knob to the original position before driving! Failure to re-install the knob could cause serious damage to your mower and void mower warranty!

A WARNING

Never pull the neutral bypass lever outside when the machine is working on the slope!



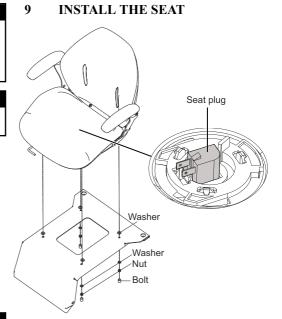
8 UNPACK THE MACHINE

▲ WARNING

Make sure that you correctly assemble the machine before use.

▲ WARNING

- If parts of the machine are damaged, do not use the machine.
- If you do not have all the parts, do not operate the machine.
- If parts are damaged or missing, contact the service center.
- 1. Open the package.
- 2. Read the documentation provided in the box.
- 3. Remove all the unassembled parts from the box.
- 4. Remove the machine from the box.
- 5. Discard the box and packing material in compliance with local regulations.



- 1. Remove four washers from seat mounting brackets.
- 2. Place the seat assembly over the mounting brackets and align holes as shown.
- 3. Connect the seat plug to the machine.
- 4. Install the bolts, washers and nuts and tighten securely.
- 5. Make sure it is securely seated.

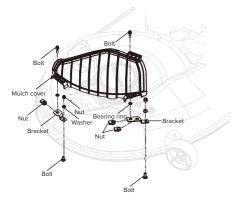
10 INSTALL THE ACCESSORIES

- 1. Mulch cover
- 2. GPS software (sold seperately)

i NOTE

The GPS software can provide remote machine locking/ unlocking, a machine locate feature, a machine serial number etc,..

10.1 INSTALL THE MULCH COVER



The mower is configured for side discharge when shipped. If mulching is desired:

- 1. Place the mulch cover on the tab on the mower housing.
- 2. Align the holes in the mulch cover and the holes in the mower housing.
- 3. Install and tighten the bolts, screws, fixation clamps and bearing ring as shown.

11 OPERATION

▲ WARNING

Wear eye protection during operation.

11.1 BEFORE OPERATION

11.1.1 ADJUST THE SEAT

Adjust the seat position to ensure you are able to make firm contact with the accelerator and brake pedals before operating the mower.



- 1. Sit down on seat and lift the seat adjustment lever.
- 2. While holding the lever, slide the seat to the desired position.
- 3. Release the lever and make sure the seat is locked in position before operating the mower.

A WARNING

Be sure the seat is locked into place before operating the mower. A seat that is not secure can cause the operator to shift and lose control of the mower and result in possible death or serious personal injury.

11.1.2 ADJUST THE DECK CUTTING HEIGHT

Before using the mower, raise the deck height to the cutting position best suited for your lawn.

Deck height is adjustable from 1.5-4.5". Deck should be raised while mowing is in progress to avoid stumps, rocks or other obstacle that can be damage mower deck.



Deck height adjustment lever

- 1. Stop the mower and disengage blades.
- 2. Turn key to OFF position and set the parking brake.
- To raise the cutting deck, grasp the deck height adjustment lever, push left to disengage from slot, move toward the back of the mower, then push right into slot to secure.
- To lower the cutting deck, grasp the deck height adjustment lever, push left to disengage from slot, move toward the front of the mower, then push right into slot to secure.

A CAUTION

Hold the deck height adjustment lever firmly when setting the deck height and only release when it is secure in the desired slot. Quickly letting go of the lever may create a pinching or pulling hazard to the operator's hand.

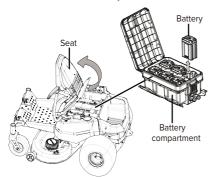
11.1.3 ADJUST THE STEERING CONTROL LEVER

The steering control levers (2) can be adjusted for operator comfort. By loosening the cap screws (2-1) that attaches the upper control lever (2-2) to the lower lever (2-3), the upper control lever can be pivoted to fit the operator's personal preference. The steering control levers should be adjusted so that they align with each other when in the neutral position.

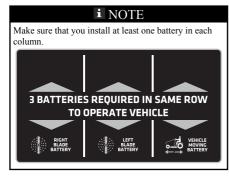


11.1.4 INSTALL THE BATTERY PACK

Mower batteries must be charged overnight before first use. To verify mower batteries are fully charged, check the battery level indicator. See the battery manual for more details.



- 1. Lift the seat panel.
- 2. Lift the battery compartment cover.
- 3. Install the battery pack into the battery compartment.



11.1.5 BEFORE OPERATING THE MACHINE

- Ensure work area is clear of children, bystanders, and pets.
- Clear the work area of objects that may be thrown by the mower blades.

- Check brake operation.
- Check tire pressure.
- Check for loose fasteners.
- Check to make sure all guards are in place and working properly.
- Clean debris from mower.
- · Test safety interlock system.
- Adjust seat to desired position.
- Verify battery charge level.

11.1.6 SAFETY START INTERLOCK SYSTEM

The machine is equipped with a safety start interlock system consisting of the park brake switches, seat switch, and deck blades ON and OFF switch.

The mower's safety start interlock system is also designed to protect the operator and others from accidental injury due to unintentional traction drive system starting.

Check mower safety start interlock system daily, prior to operation. This system is an important mower safety feature. It should be repaired immediately if it malfunctions. The machine incorporates a separate seat switch which will stop the drive system and deck motors when the operator is unseated for any reason while the mower is operating. This is a safety feature designed to prevent runaway or accidental entanglement.

A WARNING

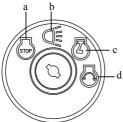
The safety interlock system must not be disconnected or bypassed. Doing so could cause the machine to operate unexpectedly, resulting in personal injury.

To inspect the system:

- 1. The operator must be on the seat when testing the seat switch.
- 2. Turn the key to the ON position.
- 3. Pull the steering control levers to the neutral position.
- 4. Pull up on the PTO switch to engage the motor.
- 5. Slowly raise off of the seat. The deck blade system should stop.
- If the deck blade system fails to stop when the operator is off of the seat and if the cause cannot be determined, contact your Greenworks dealer immediately.

11.2 OPERATE THE MACHINE

11.2.1 START THE MACHINE



a	Stop/ Off
b	On with Lights
c	Run
d	Start

A WARNING

Clear the area of bystanders before operating the mower. If anyone enters the mowing area, stop immediately and do not return to mowing until the bystanders leave the area.

1. With key inserted, turn the key to ON position (d).

i NOTE

The key will return back to (c) position automatically. Wait for 4s until the display shows normally.

2. Check for the appropriate speed mode by pressing drive speed control button to "low speed" position.

i NOTE

It is always recommended to start out in low mode/slow speed.

- 3. Pull right and left drive control levers inward to the NEUTURAL position.
- 4. Pull up on PTO switch to start cutting blades for mowing.

NOTE

Only engage blades when drive control levers are in the NEUTURAL position! NEVER engage blades when moving!

5. Push drive control levers forward for forward motion and pull for reverse motion.

i NOTE

Electric brake will engage after drive control levers are returned to neutral.

i NOTE

Turn the headlight on by turning the key to the postion (b).

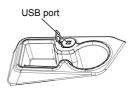
11.2.2 STOP THE MACHINE

A DANGER

Never make sudden stops or reverse direction, especially when maneuvering on a slope. The steering is designed for sensitive response. Rapid movement of the steering control levers in either direction could result in a reaction of the machine that can cause serious injury.

- 1. Return drive control levers to the Neutral position. Push drive control levers outward into park brake position.
- 2. Push down on the PTO switch to turn blades off.
- 3. Turn the key to OFF position (a).

11.2.3 USE THE USB PORT



The USB charging port provides charging power of 5 Volts DC at up to 2 amps for your cell phone, MP3 player, or other USB devices. Consult the owner's manual for your device for specific charging requirements.

Connect one end of a USB cable (not provided) to your device and the other end to the USB charging port on the mower, to begin charging your device.

i NOTICE

Attempting to charge devices rated more than 2 amps could damage the USB charging port and/or the mower.

i NOTE

The USB port is only powered when the start key is in the ON position.

▲ WARNING

Never use headphones or any electronic device, such as a smart phone or tablet, while operating the mower. Distracted operation can result in an accident that could result in death or serious personal injury to the operator or a bystander.

11.2.4 OPERATION SUGGESTIONS

A DANGER

Prior to operation, the operator should be thoroughly familiar with the proper use and operation of the equipment, should read the manual completely and thoroughly, and should have attempted slow moving maneuvers to become familiar with the operation of the equipment before attempting normalspeed operation. An inexperienced operator should not mow on slopes or on uneven terrain.

A WARNING

If you lose steering control while operating the machine, place the steering control levers in the park brake position immediately and turn key to the "OFF" position. Inspect the machine and consult your Greenworks Commercial dealer to resolve the problem before continuing to operate.

A WARNING

The unit's steering control levers are very responsive. For smooth operation, move levers slowly, avoiding sudden movements. Skill and ease of operation come with practice and experience. The machine can spin very rapidly. Use caution when making turns and slow down before making sharp turns.

Inexperienced operators may have a tendency to oversteer and lose control. Slow-moving practice maneuvers are recommended to become familiar with these characteristics before attempting normal-speed operation.

A WARNING

Sharp depressions or raised obstacles (such as gutters or curbs) should not be directly approached at high speed in an attempt to "jump" them as the operator could be thrown from the equipment. Approach at a slow speed and angle one drive wheel at the obstruction. Continue at an angle until the wheel clears and then pivot the opposite wheel around.

When turning on soft or wet turf, keep both wheels rolling either forward or backward. Pivoting on one stopped wheel can damage turf. Keep blades sharp. Many problems with incorrect cutting patterns are due to dull blades or blades which have been sharpened incorrectly. Blade sharpness should be checked daily.

A DANGER

Never work with blades while key is in the ignition switch. Always place deck blade switch in the disengaged position, place steering control levers in the park brake position and turn key to the OFF position and remove key from switch. Block up mower when you must work under it. Wear gloves when handling blades. Always check for blade damage if mower strikes a rock, branch, or another foreign object during mowing.

- Direct grass discharge to right, away from unmowed area. Select a mowing pattern that directs grass discharge towards the outside the mowing area. Generally, this means using a pattern utilizing left turns because side discharge is to the right. In any case, avoid throwing grass discharge onto unmowed area because grass is then mowed "twice." Mowing twice puts an unnecessary load on the unit and reduces mowing efficiency.
- When mowing a lawn for the first time, cut grass slightly longer than normal to avoid scalping uneven terrain. When possible, it is best to use the cutting height that was used in the past. When cutting grass taller than

six inches, you may want to mow the lawn twice to achieve a better quality of cut.

- During normal mowing, cut only about 1/3 of the grass blade. Cutting more than that is not recommended unless grass is sparse or it is the end of the mowing season.
- Alternate mowing pattern between cuts to keep the grass growing straight and better dispersion of the clippings.
- Remember, grass grows at different rates at different time of the year. Mow more often in the early spring to maintain the same cutting height. As the growth rate slows in mid summer, mow less frequently. If you cannot mow at a regular interval, mow at a high cutting height at first, then mow again two days later at a lower cutting height.
- Raise the cutting height of the mower if the cutting width of the mower is wider than the previous mower. This ensures that uneven turf is not cut too short.
- Raise the cutting height of the mower if the grass if slightly taller than normal or if it contains a high degree of moisture. Then mow it again with the cutting height set lower.
- If the machine's forward motion must be stopped while mowing, a clump of grass clippings may drop onto your lawn. To avoid this, move onto a previously cut area with the blades engaged.
- Charge the battery immediately if the battery power of the machine is lower than 5%.
- Allow motors 30 minutes to cool down. If drive motor exceeds programmed temperature, the motor speed will decrease. If temperature continues to increase, drive will shut down at a higher programmed temperature.

11.3 SLOPE OPERATION

- · Use extreme caution when operating on slopes.
- · Do not remove or modify any wheels.
- Watch for holes, ruts, bumps, rocks or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- · Remove obstacles such as rocks, tree limbs, garbage etc.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting and stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Mow a safe distance (minimum of 10 feet, or 3 meters) away from drop-offs, retaining walls, drainage ditches, embankments, water, and other types of hazards to avoid a wheel dropping over the edge or the ground breaking away. This will reduce the risk of the machine suddenly rolling over, which could cause either serious injury or death.
- Use a walk-behind, push mower or hand-held trimmer on slopes and near drop-offs, retaining walls, drainage ditches, embankments and water.
- Do not mow on wet grass. Reduced traction could cause sliding and loss of steering control.

- Do not tow on slopes. The weight of the towed equipment may cause loss of traction and control.
- If the mower's tires lose traction when operating on slopes, disengage the deck drive, place the steering control levers in the park brake position, turn the key to the "OFF" position and get help.
- Never make sudden starts, stops, turns, or reverse direction, especially when maneuvering on slopes. The steering is designed for sensitive response. Rapid movement of the steering control levers in either direction could result in a reaction of the machine that can cause serious injury.
- Never stop suddenly while backing down slopes. This action may result in a reaction of the machine that can cause serious physical injury.
- The Greenworks Commercial mower is capable of operating horizontally (traverse) on moderate slopes.
 When operating on slopes up to 15 degrees, be aware of any conditions that may cause the mower drive tires to lose traction, resulting in a possible loss of control of the machine. An operator should not operate on a slope until he is thoroughly familiar with the equipment.

Do not operate on slopes greater than 15 degrees.

Refer to Slope Guide, when determining the degree of slope to be mowed. It is strongly recommended that the operator drive the machine off of the slope, using extreme caution, if any sign of loss of traction is detected. Wait until the condition that caused the problem is resolved before attempting to operate on the slope again. Terrain conditions can affect traction, resulting in possible loss of control of the machine. Some of the conditions to be aware of are:

- 1. Wet terrain
- 2. Depressions in the ground (e.g., holes, ruts, washouts)
- 3. Mounds of dirt
- Certain types of soil (e.g., sand, loose dirt, gravel, clay)
- 5. Grass type, density, and height
- 6. Extremely dry conditions
- 7. Tire pressure

The attachments mounted to the mower will also affect the way it handles on a slope. Be aware that each attachment's characteristics vary.

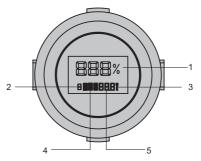
These are just a few examples of situations where caution must be used when operating on a slope. There are many other possibilities too numerous to mention. Remember to always exercise extreme caution while operating on any slope.

The ROPS may minimize chance of injury or death from rollover. Seat belt must be fastened while operating a mower equipped with ROPS in the raised and secured position. Both retaining pins and hair pins must be installed. Failure to use seat belt with ROPS will result in serious injury in the event of a rollover.

11.4 DIGITAL DISPLAY

The function of the digital display, located on the control panel, is to provide electrical system information to the operator. It gives detailed information in the form of pattern, codes and number.

11.4.1 DIGITAL DISPLAY



#	Name	Meaning
1	888%	battery remaining capacity
2	×	hourglass
3	Ĭ	controller fault/ battery fault/ motor fault/ Vehicle fault
4		fault position
5	88.8	fault code/ total working hours

11.5 FAULTS

The Canbus system will take action to protect the user and machine when it detects an issue. When it acts to turn off the machine or a component, it will indicate that a fault has occurred, and that fault will be shown on the digital display. All electrical faults have a letter code followed by a number. The first letter describes the system that caused the fault according to this chart:

11.5.1 FOR RZ SERIES

TR	Master Controller	
TL	Slave Controller	
PMU	Battery	
MR	Right Blade Controller	
MM	Middle Blade Controller	
ML	Left Blade Controller	

12 FAULT CODE

Dis- Description play			Fault code on LCD	Beep- er	Cause	Solution
ĭ	The left steer- ing control lev-	The potentiometer on the left steering control lever fails	V17	NO	The potentiometer fais.	Contact a specified serv- ice center.
	er fails.	The potentiometer connector on the left steering control lever is loose			The connector is loose.	
Ï	The right steer- ing control lev-	The potentiometer on the right steering control lever fails	V18	NO	The potentiometer fais.	Contact a specified serv-
	er fails.	The potentiometer connector on the right steering control lever is loose			The connector is loose.	ice center.
Ï	the machine does not work	Before the machine is powered on, the PTO switch is ON.	V16	NO	Before the machine is powered on, the PTO	Turn off the PTO switch.
	when the ma- chine is pow- ered on.	Before the machine is powered on, the left steering control lever is ON.			switch, left steering control lever, and right steering control lever are not in the initial po-	Turn off the left steer con- trol lever.
		Before the machine is powered on, the right steering control lev- er is ON.			sition.	Turn off the right steer con- trol lever.
Ĭ	The left or right drive mo- tor does not	The 9pin connector between the vehicle wire harness and the left drive controller is loose.	V11	NO	The connector is loose.	Contact a specified serv-ice center.
	work.	The 9pin connector between the vehicle wiring harness and the right drive controller is loose.	V14	NO	The connector is loose.	Contact a specified serv-ice center.
		The 10pin connector between the vehicle wire harness and the battery compartment is loose.	V21	NO	The connector is loose.	Contact a specified serv-ice center.
		The PCBA that controls the left and right drive motors fails	V28, TR13, TL13, TR22, TL22, TR24, TL24, TR25, TL25, TR32, TL32	NO	The PCBA fails.	Contact a specified serv- ice center.
		The 16pin connector between the vehicle wire harness and the left controller is loose, Or the 16pin connector between the ve- hicle wire harness and the right controller is loose.	V31, TR23	NO	The connector is loose.	Contact a specified serv- ice center.
		A high-voltage battery pack is inserted in the PMU1 of the bat- tery compartment.	TR11, TL11 TR12, TL12	NO	Wrong battery pack ap- plied.	Check the bat- tery pack.
		A low-voltage battery pack is inserted in the PMU1 of the bat- tery compartment.		NO	Wrong battery pack ap- plied.	Check the bat- tery pack.
		The power of the battery pack in the PMU1 of the battery com- partment is too low.			The battery capacity is not high enough.	

Dis- play	Description		Fault code on LCD	Beep- er	Cause	Solution
Ĭ	The left or right drive mo- tor does not	The right gearbox is stuck.	The right gearbox is stuck. TR14 NO	NO	The right gearbox fails.	Contact a specified serv- ice center.
	work.	The left gearbox is stuck.	TL14	NO	The left gearbox fails.	Contact a specified serv- ice center.
		The 6pin connector between the right drive controller and the right drive motor is loose.	TR15	NO	The connector is loose.	Contact a specified serv- ice center.
		The right drive motor fails.			The motor fails.	
		The 6pin connector between the left drive controller and the right drive motor is loose.	TL15	NO	The connector is loose.	Contact a specified serv- ice center.
		The left drive motor fails.			The motor fails.	
		The connector between the right solenoid valve and the right drive controller is loose.	TR16	NO	The connector is loose.	Contact a specified serv- ice center.
		The right solenoid valve fails.			The solenoid valve fails.	
		The connector between the left solenoid valve and the right drive controller is loose.	TL16	NO	The connector is loose.	Contact a specified serv- ice center.
		The left solenoid valve fails.			The solenoid valve fails.	
		The right drive controller tem- perature is too high	TR17	NO	The controoler tempera- ture is too high.	Power off the machine, and
		The left drive controller temper- ature is too high	TL17	NO		power on again after the con- troller cools down for a while.
		The right drive motor tempera- ture is too high	TR18	NO	The motor temperature is too high.	Power off the machine, and
		The left drive motor temperature is too high	TL18	NO		power on again after the con- troller cools down for a while.
		The right drive motor fais	TR21	NO	The motor fails.	Contact a
		The 6pin connector between the right drive motor and the right drive controller is loose.			The connector is loose.	specified serv- ice center.
		The left drive motor fails.	TL21	NO	The motor fails.	Contact a
		The 6pin connector between the left drive motor and the left drive controller is loose.			The connector is loose.	specified serv- ice center.

EN

Dis- play	Description		Fault code on LCD	Beep- er	Cause	Solution
Ĭ	The left or right cutter does not work.	No battery pack is inserted in the PMU2 of the battery com- partment.	V 12	NO	There is no battery pack in the battery compart- ment.	Contact a specified serv- ice center.
		The 30pin connector between the vehicle wirie harness and the left cutter controller is loose.			The connector is loose.	
		No battery pack is inserted in the PMU3 of the battery com- partment.	V 13	NO	There is no battery pack in the battery compart- ment.	Contact a specified serv- ice center.
		The 30pin connector between the vehicle harness and the right cutter controller is loose.			The connector is loose.	
		The 10pin connector between the vehicle wire harness and the battery compartment is loose.	V 22	NO	The connector is loose.	Contact a specified serv- ice center.
		The 10pin connector between the vehicle wire harness and the battery compartment is loose.	V 23	NO	The connector is loose.	Contact a specified serv- ice center.
		A high-voltage battery pack is inserted in the PMU2 of the bat- tery compartment.	ML11	NO	Wrong battery pack applied.	Check the bat- tery pack.
		A high-voltage battery pack is inserted in the PMU3 of the bat- tery compartment.	MR11	NO	Wrong battery pack applied.	Check the bat- tery pack.
		The left cutter motor fails.	ML13	NO	The motor fails.	Contact a specified serv- ice center.
		The right cutter motor fails.	MR13	NO	The motor fails.	Contact a specified serv- ice center.
		The left mowing motor is over- loaded.	ML14	NO	The motor shut down for protection.	Raise the deck height and re- duce drive speed.
		The machine is blocked with grass and debris.				Clean the deck.
		The blade hit a hard object.				Restart the ma- chine.
		The left mowing motor is over- loaded.	MR14	NO	The motor shut down for protection.	Raise the deck height and re- duce drive speed.
		The machine is blocked with grass and debris.				Clean the deck.
		The blade hit a hard object.				Restart the ma- chine.

Dis- play	Description		Fault code on LCD	Beep- er	Cause	Solution
Ï	The left or right cutter does not work.	The 6pin connector between the left cutter motor and the vehicle wire harness is loose.	ML15	NO	The connector is loose.	Contact a specified serv-ice center.
		The left cutter motor fails.			The motor fails.	
		The 6pin connector between the right cutter motor and the vehi- cle wire harness is loose.	MR15	NO	The connector is loose.	Contact a specified serv-ice center.
		The right cutter motor fails.			The motor fails.	
		The PCBA that controls the left cutter motor fails.	ML16, ML18	NO	The PCBA fails.	Contact a specified serv-ice center.
		The PCBA that controls the right cutter motor fails.	MR16, MR18	NO	The PCBA fails.	Contact a specified serv-ice center.
		The phase wire connector be- tween the left cutter motor and the left cutter controller is loose.	ML17	NO	The connector is loose.	Contact a specified serv-ice center.
		The phase wire connector be- tween the right cutter motor and the right cutter controller is loose.	MR17	NO	The connector is loose.	Contact a specified serv- ice center.
		The left cutter controller temper- ature is too high.	ML21	NO	The controller tempera- ture is too high.	Power off the machine, and power on again after the con- troller cools down for a while.
		The right cutter controller tem- perature is too high.	MR21	NO		
		The left cutter motor fails.	ML22	NO	The motor fails.	Contact a specified serv- ice center.
		The 6pin connector between the left cutter motor and the left cut- ter controller is loose.			The connector is loose.	
		The right cutter motor fails.	MR22	NO	The motor fails.	Contact a
		The 6pin connector between the right cutter motor and the left cutter controller is loose.			The connector is loose.	specified serv- ice center.
		The left cutter motor tempera- ture is too high.	ML23	NO	The motor temperature is too high.	Power off the machine, and
		The right cutter motor tempera- ture is too high.	MR23	NO		power on again after the con- troller cools down for a while.
		The 30pin connector between the vehicle wire harness and the right cutter controller is loose.	ML25	NO	The connector is loose.	Contact a specified serv-ice center.
		The 30pin connector between the vehicle wire harness and the right cutter controller is loose.	MR25	NO	The connector is loose.	Contact a specified serv-ice center.

Dis- play	Description		Fault code on LCD	Beep- er	Cause	Solution
Ĭ	The beeper alarms.	The opeartor leaves the seat.	V26	The beeper alarms in low	The machine beeps.	Turn off the machine before you leave the machine.
		The connector between the vehi- cle wire harness and the seat switch is loose.	-	fre- quen- cy.	The connector is loose.	Lift the seat to check if tht contact plug is connected.
		The 4pin connector between the display and the vehicle wire harness is loose.	NO	The beeper alarms in high fre- quen- cy.	The connector is loose.	Contact a specified serv- ice center.

Dis- play	Description		Fault code on LCD	Beep- er	Cause	Solution		
Ĭ	The battery compartment alarms.	PMU is slightly overcurrent or PMU is slightly overtempera- ture.	PMU11	NO	PMU is slightly over- current or PMU is slightly over tempera- ture.	Do not use the machine too much to avoid machine shut down.		
		There is no available battery pack in the drive battery com- partment, or the drive PMU	PMU12	NO	The working environ- ment is bad, PMU pro- tection triggered.	Restart the ma- chine.		
		shutdown protection is trig- gered.			There is no battery pack in the battery compart- ment.	Check the bat- tery capacity.		
					The battery compart- ment fails.	Contact a specified serv- ice center.		
		Unspecified battery pack inser- ted.	PMU13	NO	Wrong battery pack applied.	Only use speci- fied battery pack.		
		PMU is slightly overcurrent or PMU is slightly overtempera- ture.	PMU21	NO	PMU is slightly over- current or PMU is slightly over tempera- ture.	Do not use the machine too much to avoid machine shut down.		
		There is no available battery pack in the drive battery com- partment, or the drive PMU	PMU22	NO	The working environ- ment is bad, PMU pro- tection triggered.	Restart the ma- chine.		
		shutdown protection is trig- gered.			There is no battery pack in the battery compart- ment.	Check the bat- tery capacity.		
					The battery compart- ment fails.	Contact a specified serv- ice center.		
		Unspecified battery pack inser- ted.	PMU23	NO	Wrong battery pack ap- plied.	Only use speci- fied battery pack.		
		PMU is slightly overcurrent or PMU is slightly overtempera- ture.	PMU31	NO	PMU is slightly over- current or PMU is slightly over tempera- ture.	Do not use the machine too much to avoid machine shut down.		
		Fhere is no available battery pack in the drive battery compartment, or the drive PMU PMU32 NO	PMU32 NO	PMU32 NO	PMU32 NO	PMU32 NO	The working environ- ment is bad, PMU pro- tection triggered.	Restart the ma- chine.
		shutdown protection is trig- gered.					There is no battery pack in the battery compart- ment.	Check the bat- tery capacity.
					The battery compart- ment fails.	Contact a specified serv- ice center.		
		Unspecified battery pack inser- ted.	PMU33	NO	Wrong battery pack applied.	Only use speci- fied battery pack.		

13 MAINTENANCE

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow on a routine basis. For more detailed information, refer to the website for your unit. Remain alert for unusual noises, as they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage.

13.1 MOWER BLADE MAINTENANCE

Check the mower blades daily. They are the key to power efficiency and well-groomed turf. Keep them sharp -- a dull blade will tear rather than cut the grass, leaving a brown ragged top on the grass within a few hours. A dull blade also requires more power. Replace any blade that is bent, cracked or broken.

A WARNING

Never attempt to straighten a bent blade by heating, or weld a cracked or broken blade as the blade may break and cause serious injury. Replace worn or damaged blades.

A WARNING

Never work with blades while key is in the ignition switch. Turn key to "OFF" position, remove the battery packs from the machine. Block up mower when you must work under it. Wear gloves when handling blades. Always check for blade damage if mower strikes a rock, branch or other foreign objects!

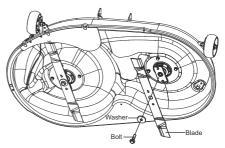
A DANGER

Touch-up sharpening can be done with a file. Check the blades for balance following grinding. A commercial balancing tool is available through most hardware supply stores, or balancing can be done by placing the blade on an inverted line punch or 1/2" bolt. Blade should not lean or tilt. While spinning the blade slowly, it should not wobble. If blade is out of balance, true it up before reinstalling. Lay the blade on a flat surface and check for distortion. Replace any distorted blade.

A WARNING

- The blade sail (curved part) must be pointing upward toward the inside of the deck to ensure proper cutting.
- When mounting blades, rotate them after installation to ensure blade tips do not touch each other or sides of the mower.
- Failure to correctly torque the bolt may result in the loss of the blade, which can cause serious injury.
- Mower blades are sharp and can cut. Wear gloves and use extra caution when servicing them.

13.1.1 REPLACE THE BLADE



- Turn key to "OFF" position, remove key from switch and remove the batteries from the battery compartment under the seat.
- Lift the front of the mower and block and secure the machine to allow serviceman to change the blade under the mower.
- 3. While wearing leather padded gloves, grasp the blade closely with one hand in order to prevent the blade from turning and use a 24mm wrench with your other hand to loosen the bolt fixing its blade in place.
- 4. Turn the bolt COUNTERCLOCKWISE to loosen and CLOCKWISE to tighten.
- 5. Remove the bolt, washer and the blade.

13.1.2 INSTALL THE BLADE

- 1. Place the blade with the cutting blade toward the ground.
- 2. Install the bolt.
- Turn the blade nut CLOCKWISE with a socket or wrench to secure the blade.

13.2 TIRES

It is important for level mowing that all tires have the correct amount of air pressure. The recommended pressure are:

NOTE

Tire pressure should only be measured or adjusted when tires are cold.

Drive wheels	37±2 psi
Front caster wheels	8±2 psi

NOTE

Inspect the tires daily. Replace immediately if damaged.

WARNING

Check the tire pressure carefully while inflating. Too much air in the tire could cause the tire to burst, causing serious personal injury.

13.3 LUBRICATION

Please add oil before operation.

Oil type	SAE85W-140
Oil capacity	180 ml

Contact your Greenworks dealer to replace the lubrication.

i NOTE

Replace the gearbox oil after you operate the machine for 50 hours for the first time, then replace the oil every 200 hours.

13.4 TORQUE VALUES

A WARNING

Particular attention must be given to tightening the drive wheel lug nuts and blade spindle bolts. Failure to correctly torque these items may result in the loss of a wheel or blade, which can cause serious damage or personal injury.

Torque values are given below:

Part	Ft-lbs.	Nm
Wheel (lug) nuts	89	120
Blade spindle bolt	66	90

Lug nuts only -It is recommended that these be checked after the first 2 hours of operation, initially, every 100 hours and following removal for repair or replacement.

For all other torques refer to the various mower parts manuals for standard torque chart.

13.5 BATTERY PACK MAINTENANCE

Your Greenworks Commercial mower is powered by a battery pack which, when maintained properly, will provide years of useful life. For proper care, adhere to the following instructions:

- Always charge batteries after each use.
- Whenever a battery pack is fully discharged and turned off, it is best to recharge the battery as soon as possible. Over-discharge of the battery pack means the battery life will be shortened and the battery may become permanently damaged. There is no need to fully charge; it will be beneficial even if you only charge the battery pack for 5-10 minutes. It is best to recharge it within 24 hours.
- Check that battery cables are securely tightened to batteries each time you service the battery.
- Keep grass, dirt and debris from collecting near battery terminals and in battery area.
- Charge batteries indoors in a well-ventilated and dry location away from sparks or flames. Never expose charger to rain, vapor or liquid.

- Charge only lithium batteries provided by Greenworks
 Commercial.
- Do not touch uninsulated portion of charger (terminal pins) or of output connector.
- Do not use with defective cords and wires. Replace defective cords and wires immediately.
- For long-term storage, please make sure the storage temperature is -4°F - 113°F within one month, and 32°F -95°F between two and 12 months.
- The working environment of the battery pack is 14°F -113°F. Battery pack can be used a -5°F - 131°F for discharge, and 32°F - 107°F for charge.

13.6 SERVICE

i IMPORTANT

Wait for all movement to stop before adjusting, cleaning or repairing. Repairs or maintenance requiring power should be performed by trained maintenance personnel only. Read and observe safety warnings in front of manual.

i IMPORTANT

Repairs or maintenance requiring power should be performed by trained maintenance personnel only.

- Park the mower on level ground. Make sure that steering control levers are in the neutral position, and that the PTO switch is in "OFF" position. Raise deck, rotate key to "OFF" position, remove key from switch and remove the battery packs from the battery compartment under the seat.
- Any maintenance operation that requires the removal of safety covers must be performed by a trained service technician.
- Use a stick or similar instrument to clean under the mower, making sure that no part of the body -- especially arms and hands -- is under mower.
- Keep your machine clean and remove any deposits of trash and clippings.
- Keep battery compartment, deck and operator's station clean of accumulated trash, grass clippings, and other debris.
- Clean battery compartment, drive motor compartment, mower deck, seat, etc., of all dirt and debris. To clean, use only compressed air. DO NOT use water, solvents, hard cleaners or abrasives.
- Always wear adequate eye protection when servicing the batteries or when grinding mower blades and removing accumulated debris. Never attempt to make any adjustments or repairs to the mower's drive system, mower deck or any attachment while the traction drive system is running. Repairs or maintenance requiring power should be performed by trained maintenance personnel only.
- Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands.

- The jack stands should not allow the machine to move when the traction drive system is running and the drive wheels are rotating. Use only certified jack stands. Use only appropriate jack stands, with a minimum weight rating of 2000 pounds (907.2 kg) to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands.
- Do not touch hot parts of machine.
- Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Turn the key to the "OFF" position before unclogging the discharge chute.
- Never clear the discharge chute with the machine running. Turn the key to the "OFF" position and be sure the blades have stopped before cleaning. Use a stick to clear a plugged discharge area. Never use your hand!
- Stop unit and allow blades to stop before unclogging chute. Grass collection system components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Exercise caution when working under the deck as the mower blades are extremely sharp. Wear gloves and use extra caution when servicing them.
- Use only genuine Greenworks Commercial Mower parts to ensure that original standards are maintained.
- Always remove batteries when transporting unit. Keep unit free of grass clippings, leaves and other debris.

14 TRANSPORTATION AND STORAGE

14.1 TRANSPORTATION

A WARNING

Use extra care when loading or unloading the machine into a trailer. Press the low speed drive button and carefully move the drive levers as needed to control the speed. Always back onto the trailer when loading. When loading or unloading the mower, do not exceed the maximum recommended operation angle of 15°. Failure to follow these instructions can result in loss of control and result in death, serious personal injury, or property damage.

▲ WARNING

Use care when loading or unloading the mower onto a trailer. Ensure the cutting deck is raised to the highest position so that it is not caught on the ramp. The wheels on the mower can go off the ramp or trailer, causing the mower to pivot or tip over, and result in a crush hazard that can cause death or serious personal injury.

- 1. Park the mower on a level surface.
- 2. Raise the cutting deck to the highest position.

3. Position and secure ramp to the trailer according to manufacturer's instructions.

i NOTE

We recommend you use one full width loading ramp that is at least 1 ft. wider than the mower to minimize the risk of the mower's wheels going off the side of the ramp.

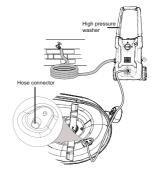
- 4. Slowly back the mower onto the ramp and into the trailer.
- 5. Lower mower deck completely.
- 6. Set the parking brake.
- 7. Turn off mower and remove key.
- Secure the mower as needed using straps or cables to prevent movement during transport.

A WARNING

To avoid accidental starting or movement that could result in serious personal injury, always remove the start key and set the parking brake when transporting the mower.

15 CLEANING AND STORAGE

15.1 CLEAN THE MACHINE



- 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, turn off the machine, and scrape it clean using an appropriate tool.
- To clean the blade, connect a high pressure washer to the hose connector under the blade deck. Turn on the blade while you clean the blade.

15.2 STORE THE MACHINE

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

· Clean the machine as described in the previous section.

- Inspect the blade and replace it or sharpen it, if required (refer to the Maintenance section).
- Do not store the machine next to corrosive materials, such as fertilizer or rock salt.
- · Keep the machine out of the reach of children.
- Do not cover the machine with a solid plastic sheet. Plastic coverings trap moisture around the machine, which causes rust and corrosion.
- Check thoroughly for any worn or damaged parts that need replacing and order them from your dealer.
- Thoroughly lubricate machine, according to lubrication instructions.
- Fully charge and service the batteries.
- · Do not deflate tires.

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• The machine should be stored in a well-ventilated, clean and dry place.

15.3 PREPARE FOR USE AFTER STOAGE

The following steps should be taken before using the mower after it has been stored:

- Fully charge the batteries.
- · Check tire pressure and inflate as needed.
- Briefly drive the mower and check all systems and components to ensure they are functioning correctly.

16 TROUBLESHOOTING

Problem	Cause	Solution
The machine does not move.	 There is no battery pack in the battery compartment that controls the drive function or the battery packs are not Globe designed. The battery pack is out of power. The steer control lever is in the NUETRAL position. There is no person sitting on the seat or the seat switch is not connected. The steer control levers are not powered on. The battery pack that controls the drive function is in sleep state. 	 Make sure at least one Greenwoks designed battery pack is inserted in the battery compartment that controls the drive function. Make sure the battery pack has power. Make sure at least one green light on the battery pack is on. Make sure the steer control levers are both in the Neutral position. Make sure the operator is sitting on the seat, if not, the beeper will alarm. Make sure the steer control levers work. Return the steer control levers work. Return the steer control lever and PTO switch to the original position, restart the machine. if the machine still fails to work, contact the service center for help. Restart the machine.
Sudden break- down during driving.	 The battery is out of power. The seat switch is disconnected on rugged or bumpy roads. The accelerator fails. The vehicle controller fails. 	 Make sure at least one Greenwoks designed bat- tery pack is inserted in the battery compartment that controls the drive function.Make sure the battery pack has power. Ruturn the steer control lever to original position, restart the machine, operate the steer control lev- er to check if the machine works normally. 3, Contact a technical people for help.

Problem	Cause	Solution
The blade fails to run when you pull up the PTO switch.	 There is no battery inserted that controls the left or right blade function. The battery compartment that controls the blade is out of power. The seat switch is not connected. The PTO switch is not in the OFF position when the machine is powered on. The blade motor is blocked or other functional protection. 	 Make sure at least one Greenwoks designed battery pack is inserted in the battery compartment that controls the left or right blade. Make sure the battery pack has power. Make sure at least one green light on the battery pack is on. Make sure the operator is sitting on the seat, if not, the beeper will alarm. Push down on the PTO switch, restart the ma-
	 The discharge system of the left or right blade battery compartment is in the sleep state. 	 chine. 5. Cut the grass in low blade speed when you power on the machine, set the blade speed to high posi- tion once the machine cuts normally. Check if the connection between the blade and motor is with- out grass or foreign objects to ensure the blade rotates smoothly. 6. Restart the machine.
The blade stops running during	 The blade motor is overheated. The deck is full of grass and garbage. 	 Do not use the machine too much, power off the machine for 5min. Raise the deck height or re-
the mowing process.	 The blade motor is overloaded. The battery pack termperature is too high. The battery is undervoltage. The blade is hit by a foreign object, causing the blade to stop suddenly for protection. 	 duce the driving speed to protect the blade. Clean the deck to ensure that the blade rotation is normal. Push down on the PTO switch; restart the machine. Raise the deck height or reduce the drive speed to protect the blade.
		 The battery pack stops working once it is over- temperature. wait until the battery pack cools down. Make sure at least one battery pack is in- serted for each function. The battery pack that controls the blade system is under voltage. Charge the battery immediately. Push down on the PTO switch and restart the ma-
The beeper	1. The person leaves the seat when the vehicle is	chine. 1. Return the steer control levers to Neutral position
alarms.	powered on. 2. The display shows abnormal communication.	when you finish working; if you will leave the seat for a long time, power off the machine.2. Check if the connection of the display communication is OK. If the connection is OK, but the display is still black, contact a service center for help.
The machine cuts the grass unevenly.	 The blade is dull. The blade is bent. 3. The deck is uneven. 	 Grind the blade according to the manual. Replace the bent blade, replace the blade according to the instructions in the manual, and wear protective equipment. Adjust the cutting deck according to the instructions in the manual to ensure the left and right deck height are even.
The actual cut height does not match the cut	 The bolt of the deck is loose. The deck is severely worn or damaged. 	 Adjust the cutting deck bolt,make sure the deck is not loose. Please balance the deck level after each adjustment.

Problem	Cause	Solution
The machine cuts the grass abnormally.	 The grass is too wet. The grass amount you set is too much. 	 Please check the grass before working. If the grass is too wet, please wait until the grass gets drier. If the grass is too intensive and high, raise the deck height, and avoid cutting intensive grass.
The machine vibrates too much.	 The blade is loose. The blade is bent. The deck is uneven. The deck is loose. The blade cuts too much grass more than the amount you set. 	 Grind the blade according to the manual. Replace the bent blade, replace the blade according to the instructions in the manual, and wear protective equipment. Adjust the cutting deck according to the instructions in the manual to ensure the left and right deck height are even. Tighten the fixing bolts of the deck. If the grass is too intensive and high, please raise the cutting deck and try to avoid cutting intensive grass.
There is grass or debris on the ground after mowing.	 The blade cuts too much grass more than the amount you set. The grass is too wet. You drive too fast. The blade speed is too low. 	 If the grass is too dense and high, please raise the cutting deck. If the grass height exceeds 6 inch, please cut the area repeatedly. Try to avoid cutting intensive grass. Please check the grass before working. If the grass is too wet, please wait until the grass gets drier. Reduce the drive speed. Turn the blade speed to high position.
The cutting time is short.	Heavy grass can short the running time of the lawn mower.	Raise the cutting deck and reduce the blade speed to extend the running time.
The machine is off the track.	The tire pressure of the left and right rear wheel is different.	Check the tire pressure of the machine regularly ac- cording to the instructions.
The machine fails to start af- ter cleaning.	Improper cleaning, water enters electronic compo- nents such as LCD or battery compartment.	 When cleaning the machine, please clean it according to the instructions. If the vehicle is accidentally exposed to rain, please put the vehicle in a dry place for 12 hours or dry it before use.
The mower is blocked.	The deck is full of weeds and garbage.	Please clean the machine correctly according to the instructions after each use.
The machine moves on the slope even if you engage the neutral bypass knob.	 Tire wear is too serious. The neutral bypass knob is damaged or severely worn out. 	Contact a service center to replace the tire or neutral bypass knob.

17 TECHNICAL DATA

Model No.	RZ42M60	RZ42M80	RZ42M82
Voltage	60 V	80 V	82 V
Gross vehicle weight (lbs)	234±3	234±3	234±3
Length	67"	67"	67"
Height	46"	46"	46"
Width (with discharge)	53"	53"	53"
Deck width	42"	42"	42"
Forward speed (mph)	7.5±0.2	7.5±0.2	7.5±0.2
Reverse speed (mph)	2.9±0.2 MAX	2.9±0.2 MAX	2.9±0.2 MAX
Cutting height range	1.5-4.5"	1.5-4.5"	1.5-4.5"
Maximum working capacity (acre)	2	2	2
Bucket capacity (lbs)	200	200	200
Battery model	60BA08	BAB734	GL600BT
Charger model	60DPC10A	CAB812	82DPC8A

18 WARRANTY

Greenworks hereby warranties this product, to the original purchaser with proof of purchase, for a period of four (4) years or 200 hours of use (whichever comes first) 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.

18.1 ITEMS NOT COVERED BY WARRANTY:

- Any that have been transferred to a new owner. This warranty only applies to the original purchaser from an authorized Greenworks retailer or dealer. This warranty is nontransferable.
- Any part that has become inoperative due to misuse, rental use, commercial use, abuse, neglect, accident, improper maintenance, product modification, unauthorized repair or alteration; or
- 3. If item has not been operated and/or maintained in accordance with the owner's manual; or
- 4. Normal wear.
- Routine maintenance parts or service include, but are not limited to: lubricants, mower seat wear, blade sharpening, wheels, tiers, anti-scalp wheels, blades as well as any optional accessories or attachments.
- Normal deterioration of the exterior finish due to use or exposure.
- 7. Damage or failure resulting from, but not solely: immersion in water or other liquids, accidents, misuse,

neglect or lack of proper installation, and proper maintenance and storage.

 An item that has not been registered on an authorized Greenworks website (see REGISTRATION info with QR code or product page info for proper product registration).

18.2 HELPLINE:

Warranty service is available by calling our toll-free helpline, at 1-888-909-6757.

18.3 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 chares for any part submitted for replacement under this warranty unless such return is requested in writing by Greenworks.

USA address:	Canadian address:
Greenworks Tools	Greenworks Tools Canada Inc.
P.O. Box 1238	P.O. Box 93095, Newmarket, Ontario
Mooresville, NC 28115	L3Y 8K3

19 GREENWORKS PRODUCT REGISTRATION:

NAME:						
ADDRESS:						
CITY :	STATE :	ZIP CODE :	COUNTRY :			
HOME PHONE:		MOBILE PHONE:				
PURCHASE DATE:		PURCHASED FROM:				

20 SERIAL NUMBER(S)

Please list Serial Number(s) below along with Model Information:

DESCRIPTION	MODEL #	PART #	SERIAL #	DATE PUR- CHASED