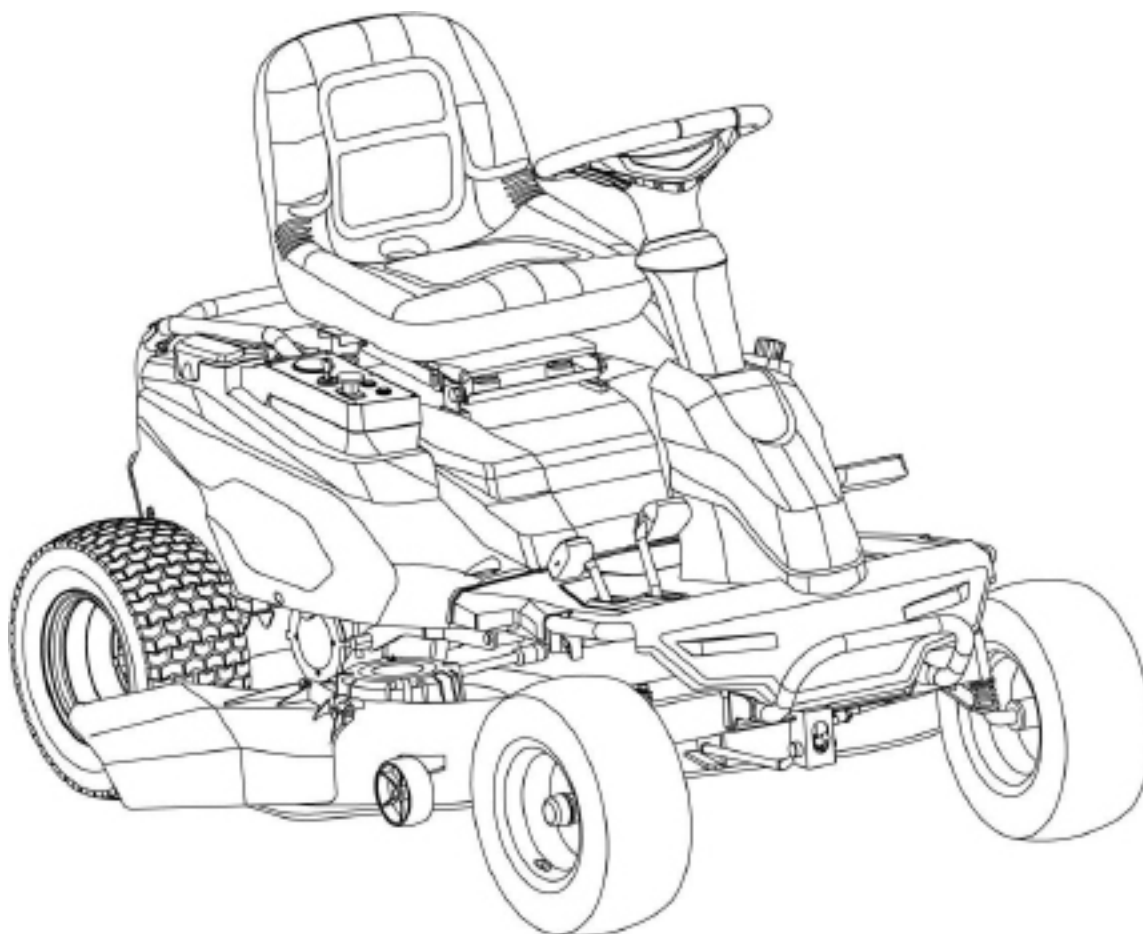




**BLUEBIRD
INDUSTRIES**

**Battery-powered rider
Instructions for use
BR SD 98, BR SD 108**



WARNING

**READ AND FOLLOW ALL SAFETY RULES AND INSTRUCTIONS IN THIS
MANUAL BEFORE ATTEMPTING TO OPERATE THIS MACHINE.**

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.

-translation of the original instructions-

INTRODUCTION

Dear customer,

Thank you for choosing one of our products. We hope that using your new machine will fully satisfy you and meet all your expectations. This manual has been written to help you become familiar with the machine and use it safely and efficiently. Remember that this manual is an integral part of the machine, so keep it handy for future reference and give it to the buyer if the machine is sold.

This new mower has been designed and built according to current standards and is safe and reliable when used for mowing and collecting grass as instructed in this manual (proper use). If the machine is used in any other way or if the instructions for safe use, maintenance, and repair are ignored, this is considered "improper use." In this case, the warranty is automatically voided and the manufacturer is not responsible for any damage or injury to yourself or others.

As we regularly improve our products, you may find slight differences between your machine and the descriptions in this manual. Changes may be made to the machine without notice and without obligation to update the manual, although the essential safety and functional features will remain unchanged. If you have any questions, do not hesitate to contact your dealer or service center. And now, enjoy your work!

Index

1. Important Safe Operating Practices.....	1
2. Setup.....	10
3. Controls and Features.....	12
4. Operation.....	15
5. Maintenance and Adjustment.....	19
6. Service.....	24
7. Troubleshooting.....	26
8. Specifications.....	27
9. Warranty.....	29

1. Safe Operating Practices

WARNING! This symbol indicates important safety instructions which, if not followed, could endanger personal safety and/or the property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to follow these instructions may result in personal injury. When you see this symbol, **PAY ATTENTION TO ITS WARNING!**

WARNING! Battery electrodes, terminals, and related accessories contain lead and lead compounds, chemicals known to cause cancer and reproductive harm. **Wash hands after handling.**

DANGER: This machine has been built to be used according to the safe operating practices in this manual. As with any type of power equipment, operator inattention or error can cause serious injury. This machine can amputate fingers and toes and throw objects. Failure to follow the safety instructions below may result in serious injury or death.

CAUTION: When using electric mowers, always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. These basic precautions include the following pages:

READ ALL INSTRUCTIONS

48-volt battery system

Maintenance requires extreme care and knowledge of the system and should only be performed by a qualified service technician. Contact your dealer or service center for questions or problems with this machine.

Always use original equipment manufacturer (OEM) replacement parts during maintenance.

General Machine Safety Warnings

WARNING! Read all safety warnings, instructions, illustrations, and specifications provided with this machine. Failure to follow the instructions listed below may result in electric shock, fire, and/or serious injury.

Keep all warnings and instructions for future reference.

1) Workplace Safety

- a) Keep the work area clean and well lit. Cluttered or dark areas increase the risk of accidents.
- b) Do not use machines in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Machines create sparks that can ignite dust or fumes.
- c) Keep children and bystanders away while operating a machine. Distractions can cause you to lose control.

2) Electrical Safety

- a) The machine's plugs must match the outlet. Never modify the plug in any way. Do not use adapter plugs with grounded machines. Unmodified plugs and matching sockets will reduce the risk of electric shock.
- b) Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- c) Do not expose machines to rain or wet conditions. Water entering a machine increases the risk of electric shock.
- d) Do not abuse the cord. Never use the cord to carry, pull, or unplug the machine. Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cables increase the risk of electric shocks.
- e) When operating a machine outdoors, use an extension cord suitable for outdoor use. Using a cord suitable for outdoor use reduces the risk of electric shock.
- f) If it is unavoidable to operate a machine in a damp location, use a power supply protected by a residual current device (RCD). The use of an RCD reduces the risk of electric shock.

3) Personal Safety

- a) Stay alert, watch what you are doing, and use common sense when operating a machine. Do not operate a machine when you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating machines may result in serious personal injury.
- b) Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-slip safety shoes, helmet, or hearing protection used under appropriate conditions will reduce personal injuries.
- c) Prevent unintentional starting. Make sure the switch is off before connecting to the power source and/or battery, picking up, or carrying the machine. Carrying machines with your finger on the switch or powering machines that have the switch on increases the risk of accidents.
- d) Remove any adjusting key or wrench before turning on the machine. A wrench or key left attached to a rotating part of the device can cause personal injury.
- e) Do not overreach. Always maintain proper support and balance. This allows better control of the device in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts. Loose clothing, jewelry, or long hair can become entangled in moving parts.
- g) If devices are provided for the connection of dust extraction and collection systems, ensure these are connected and used properly. The use of dust collection can reduce dust-related hazards.
- h) Do not let familiarity gained from frequent use of machines allow you to become complacent and ignore machine safety principles. Careless action can cause serious injury in a fraction of a second.

4) Use and Maintenance of the Appliance

- a) Do not force the appliance. Use the correct device for your application. The correct device will work better and more safely at the pace for which it was designed.
- b) Do not use the machine if the switch does not turn it on and off. Any machine that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/or remove the battery, if removable, from the machine before making any adjustments, changing accessories, or storing the machines. These preventive safety measures reduce the risk of accidentally starting the machine.
- d) Store idle appliances out of the reach of children and do not allow persons unfamiliar with the appliance or these instructions to operate it. Machines are dangerous in the hands of untrained users.
- e) Maintenance of machines and accessories. Check for misalignments or binding of moving parts, broken parts, and any other condition that may affect the operation of the device. If damaged, have the device repaired before use. Many accidents are caused by poorly maintained machines.
- f) Keep cutting machines sharp and clean. Properly maintained cutting machines with sharp edges are less likely to bind and are easier to control.
- g) Use the machine, accessories, and machine bits, etc., in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the machine for operations different from those intended could result in a hazardous situation.
- h) Keep handles and gripping surfaces dry, clean, and free from oil and grease. Slippery handles and gripping surfaces do not allow for safe handling and control of the machine in unexpected situations.

5) Use and Maintenance of the Battery-Powered Machine

- a) Recharge only with the charger specified by the manufacturer. A charger suitable for one type of battery may create a fire hazard if used with a different battery.
- b) Use the machines only with the specifically designated batteries. The use of any other battery may create a risk of injury and fire.
- c) When the battery is not in use, keep it away from other objects such as keys, nails, screws, or other small metal objects that can be connected to each other. Short-circuiting the battery terminals can cause burns or a fire.
- d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. In case of accidental contact, rinse with water. If the liquid comes into contact with eyes, consult a doctor. Battery fluid leakage can cause irritation or burns.
- e) Do not use a damaged or modified battery or machine. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- f) Do not expose the battery or the machine to fire or excessive temperature. Exposure to fire or temperatures above 130 °C may cause explosions.
- g) Follow all charging instructions and do not charge the battery or the machine outside the temperature range specified in the instructions. Improper charging or charging at temperatures outside the specified range may damage the battery and increase the risk of fire.

6) Service

- a) Have the machine repaired by qualified personnel using only identical replacement parts. This will ensure the safety of device maintenance.
- b) Never repair a damaged battery. Battery maintenance must only be performed by the manufacturer or authorized service providers.

General Operation

- 1. Read, understand, and follow all instructions on the machine and in the manuals before attempting to operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- 2. Know all the controls and the proper use of the equipment. Be able to stop and quickly disengage the equipment.
- 3. This machine is a precision power tool, not a toy. Therefore, always exercise the utmost caution. This machine has been designed to perform only one task: mowing grass. The use of this machine is not permitted for other purposes.
- 4. Never allow children under 14 years of age to operate this machine. Children aged 14 years or older must read and understand the instructions and safe operating practices contained in this manual and on the machine, and must be trained and supervised by an adult.
- 5. Never allow adults to operate this machine without proper training.
- 6. Do not charge or use the mower in the rain or in wet areas.
- 7. In the event of a system failure or complete loss of battery power, the mower may unlock the wheel. Press the brake pedal to maintain control and stop the equipment. Restart the mower. If the problem persists, contact the dealer or service center.
- 8. Do not mow on wet grass. Reduced traction may cause slipping.
- 9. Only responsible persons familiar with these safe operating rules should be allowed to use this machine.
- 10. To avoid contact with the blade or injury from thrown objects, keep bystanders, helpers, children, and pets at least 22.8 meters away from the machine while it is operating. Stop the mower if anyone enters the area.
- 11. Carefully inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys, and other foreign objects that could be picked up and thrown by the blades. Thrown objects can cause serious personal injury.
- 12. Plan the mowing pattern to avoid discharging material toward roads, sidewalks, bystanders, and the like. Also, avoid discharging material against a wall or obstruction that could cause the discharged material to bounce back toward the operator.

13. Always wear safety glasses or goggles to protect your eyes during operation and when making adjustments or repairs. Bouncing thrown objects can cause serious eye injuries.
 14. Wear sturdy work shoes with rough soles and close-fitting pants and shirts. Loose clothing and jewelry can get caught in moving parts. Never operate this machine barefoot or wearing sandals.
 15. Pay attention to the discharge direction of the mower and its attachments and do not point it at anyone. Do not operate the mower without the discharge cover in its proper position.
 16. Do not place hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
 17. A missing or damaged discharge cover can result in contact with the blade or injury from thrown objects.
 18. Stop the blades when crossing gravel roads, walkways, or streets and not mowing.
 19. Be aware of traffic when operating near or crossing roads. This machine must not be used on public roads.
 20. Do not operate the equipment when tired, ill, or under the influence of alcohol or other drugs.
 21. Do not mow when there is a risk of lightning.
 22. Mow only in daylight or with good artificial lighting.
 23. Never carry passengers.
 24. Back up slowly. Always look down and behind before and while reversing to avoid a back-over accident. Be careful and pay attention to the function of the safety system that cuts power to the blades when driving in reverse. If it does not function properly, contact an authorized dealer for inspection and repair of the safety system.
 25. Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excessive speed.
 26. Stop the mower, disengage the blades, set the parking brake, and wait for the blades to come to a complete stop before unlocking the chute, removing grass or debris, or making any adjustments.
 27. Never leave a powered machine running and unattended. Always stop the mower, turn off the blades, set the parking brake, and remove the key before dismounting.
 28. Use extra caution when loading or unloading the machine into a trailer or cart. This machine must not be driven up or down ramps, as it may tip over and cause serious personal injury. The machine must be pushed manually onto the ramp(s) to load or unload properly.
 29. Do not turn off the key and coast downhill.
 30. Carefully check overhead clearance before driving under low-hanging tree branches, wires, door openings, etc., where the operator could be struck or pulled from the machine, which could cause serious injury.
 31. Do not attempt to mow through unusually tall and dry grass (e.g., pasture) or piles of dry leaves. Dry grass or leaves may accumulate on the mower deck, presenting a potential fire hazard.
 32. Use only accessories and extensions approved for this machine by the manufacturer. Read, understand, and follow all instructions provided with the approved accessory or attachment.
 33. Data indicate that operators aged 60 years or older are involved in a large percentage of mower-related injuries. These operators should assess their ability to operate the mower safely enough to protect themselves and others from serious injury.
 34. Use safety and non-slip footwear, close-fitting clothing, and protective devices for eyes, ears, and head. Use anti-vibration (AV) gloves.
- A condition known as Raynaud's phenomenon, which affects the fingers of some individuals, is believed to be caused by exposure to vibration and cold. Loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure that could trigger the disorder is unknown.

Keep your body warm, especially your head, neck, feet, ankles, hands, and wrists. Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and by avoiding smoking. Limit operating hours.

All of the above precautions do not guarantee that you will not suffer from white finger disease or carpal tunnel syndrome. Therefore, continuous and regular users should carefully monitor the condition of their fingers. If any of the above symptoms occur, consult a physician immediately. During a workday, it is necessary to take frequent and adequate breaks to prevent vibration-related injuries and hearing damage. Warning! National regulations (Occupational safety and health, environment) may be in place that can limit the use of the machine; long-term exposure to noise can cause permanent hearing impairment. Therefore, always use approved hearing protection. If situations not covered in this manual occur, use caution and common sense. Contact your Dealer or Service Center for assistance.

Driving and transport on public roads

Check the relevant road regulations before driving the machine on a public road. If transporting the machine on another vehicle, always use approved securing devices and ensure the machine is held firmly in place.



Operation on slopes

Mow only on slopes with inclines up to the maximum previously mentioned

Slopes are a significant factor related to loss of control and rollover accidents that can result in serious injury or death. All slopes require special attention. If you cannot climb the slope or if you feel uncomfortable, do not use the mower.

For safety reasons, use the slope gauge included in this manual to measure slopes before operating this machine on a sloped or hilly area. If the slope is greater than 15 degrees as shown on the slope gauge, do not use this machine on that area or serious injury may occur.

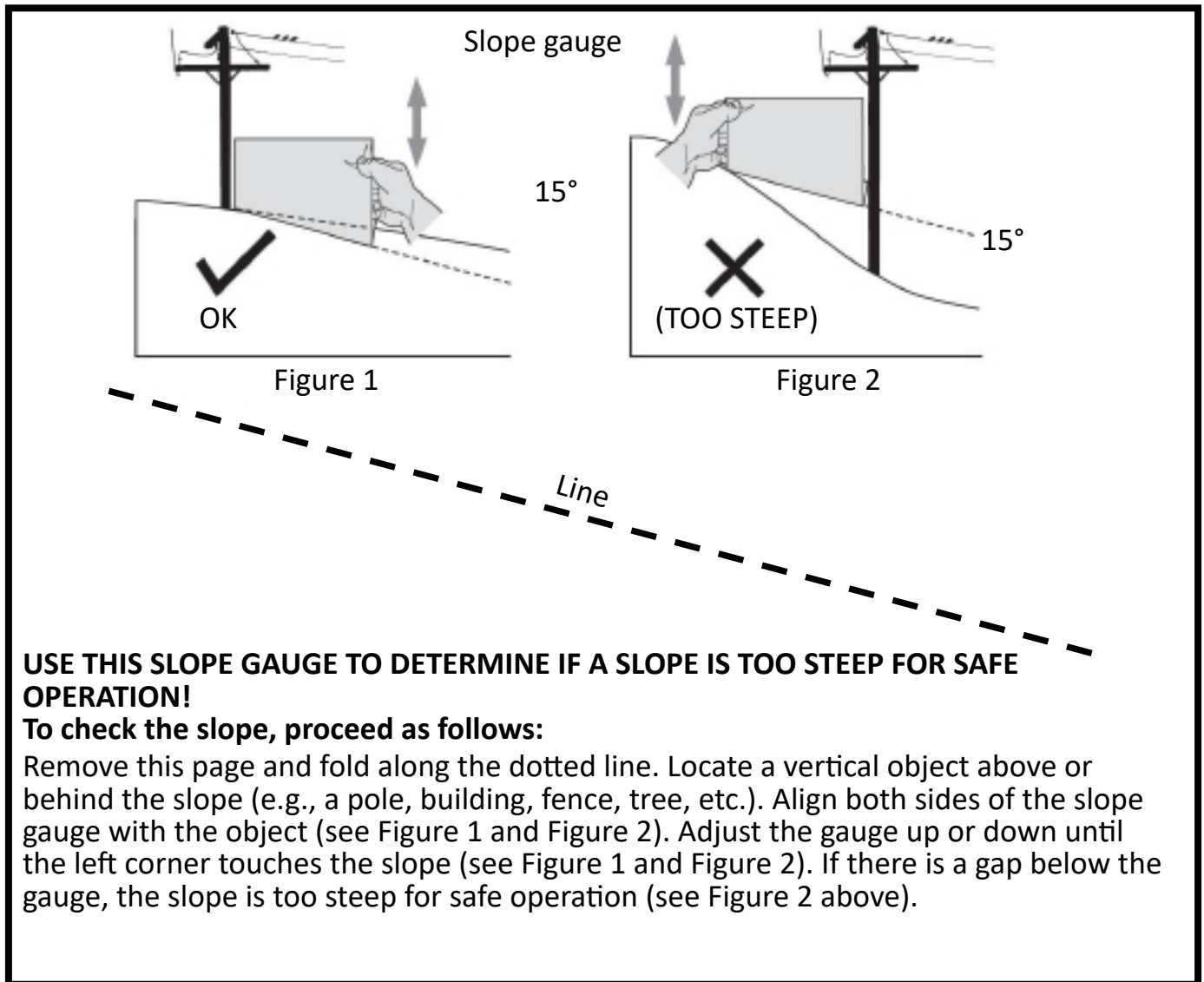
To do:

1. Mow across slopes; the operator should not go up and down. Use extreme caution when changing direction on a slope.
2. Watch out for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause the machine to tip over. Tall grass may hide obstacles.
3. Use a slow speed. If the mower must stop on the slope, select the lowest possible speed. Avoid abrupt starts or stops on slopes. If the tires cannot maintain traction, disengage the blades and proceed slowly and carefully along the slope.
4. Pay special attention to any attachments. These may affect the stability of the machine.
5. Keep all movements on slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid acceleration or deceleration may cause the front of the machine to lift and quickly tip backward, resulting in serious injury.

Do not:

1. Do not turn on a slope unless necessary; if so, turn slowly uphill and pay special attention while turning.
2. Do not mow near drop-offs, ditches, or embankments. The mower could tip over suddenly if a wheel goes over the edge of a cliff, ditch, or if an edge collapses.

3. Do not attempt to stabilize the machine by putting your foot on the ground.
4. Do not operate the mower in the rain or in wet areas.
5. Do not mow on wet grass. Reduced traction may cause slipping.
6. Do not tow heavy loads behind attachments (e.g., loaded dump cart, lawn roller, etc.) on slopes greater than 5 degrees. When going downhill, extra weight tends to push the mower and may cause loss of control (for example, the mower may speed up, braking and steering ability are reduced, and jamming may cause the mower to tip over).
7. Do not remove the key and do not travel downhill.



WARNING!

Slopes are a significant factor related to rollovers and accidents that can cause injury or death. Do not operate the machine on slopes greater than 15 degrees. All slopes require special attention.

Children

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

- a. Keep children out of the mowing area and under the supervision of an adult responsible other than the operator.
 - b. Be alert and turn off the machine if a child enters the area.
 - c. To avoid rollover accidents, always look behind and down to spot small children.
 - d. Never carry children, even with the blades disengaged. They can fall and get injured seriously or interfere with the safe operation of the machine.
 - e. Use extreme caution when approaching blind corners, doors, bushes, trees, or other objects that may block your view of a child who could run into the path of the machine.
 - f. Remove the key when the machine is unattended to prevent unauthorized operation.
2. Never allow children under the age of 14 to operate this machine. Children aged 14 years or older must read and understand the instructions and safe operating practices contained in this manual and on the machine, and must be trained and supervised by an adult.

General Maintenance

1. Contact your dealer or service center for questions or issues with this machine. This will ensure the continued safety of the mower.
2. Recharge only with the charger specified by the manufacturer. A charger suitable for one type of battery may create a fire hazard if used with a different battery.
3. Do not use the charger in the rain.
4. Replace the batteries if the battery capacity drops below 50% of the initial capacity.
5. The use of old or defective batteries may cause a system failure resulting in a loss of power.
6. Turn off and remove the key before performing maintenance, cleaning, or removing material from the mower.
7. Before cleaning, repairing, or inspecting, make sure the blade(s) and all moving parts have stopped.
8. Periodically check to ensure that the blades come to a complete stop within about five (5) seconds after operating the blade disengagement control. If the blades do not stop within this time frame, contact your dealer or service center.
9. Regularly check the proper operation of the safety interlock system, as described later in this manual. If the safety interlock system does not function properly, contact your dealer or service center.
10. Check that the blade(s) are properly tightened at frequent intervals. Also visually inspect the blade or blades for damage (e.g., excessive wear, bending, cracking). Replace the blade(s) only with original equipment manufacturer (O.E.M.) blades listed in this manual. "The use of parts that do not meet original equipment specifications may result in improper performance and compromise safety!"
11. The mower blades are sharp. Wrap the blade or wear gloves and use extra caution during maintenance.
12. Keep all nuts, bolts, and screws tight to ensure the equipment is in safe working condition.
13. Never tamper with the safety interlock system or other safety devices. Regularly check their proper operation.
14. After striking a foreign object, stop the mower. Carefully inspect the equipment for any damage. Repair the damage before starting and using.
15. Never attempt to make adjustments or repairs to the mower while it is running.
16. The discharge cover is subject to wear and damage that could expose moving parts or allow objects to be thrown.

For safety protection, frequently check components and replace them immediately only with original equipment manufacturer (O.E.M.) parts listed in this manual. The use of parts that do not meet original equipment specifications may result in improper performance and compromise safety!

17. Maintain or replace safety and instruction labels as necessary.

Storage

Store the unused mower indoors; when not in use, the mower must be kept in a dry, locked location, OUT OF THE REACH OF CHILDREN.

Safety Symbols

This page illustrates and describes the safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and use it.

Symbol	Description
	READ THE OPERATOR'S MANUAL(S) Read, understand, and follow all instructions in the manuals before attempting to assemble and use.
	WARNING -- ROTATING BLADES Do not place hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
	CAUTION -- OBJECTS BEING THROWN This machine can pick up and throw objects that may cause serious personal injury.
	CAUTION -- ELECTRIC SHOCK Do not use the charger in the rain and do not operate the mower with the charger connected. Do not use the mower in the rain or in wet conditions.
	BYSTANDERS Keep bystanders, helpers, children, and pets at least 25 meters away from the machine while it is operating.
	WARNING - SLOW OPERATION Do not use this machine on a slope greater than 15 degrees.
	DANGER -- ROTATING BLADES To reduce the risk of injury, keep hands and feet away. Do not operate unless the discharge cover or grass catcher is in the correct position. If damaged, replace it immediately.
	DANGER -- ROTATING BLADES Never carry passengers. Never carry children, even without the blades.
	DANGER -- ROTATING BLADES To avoid a back-over accident, keep children away from the machine while it is operating.
	DANGER -- ROTATING BLADES Always look down and behind before and while backing up to avoid a back-over accident.

Symbol	Description
	WARNING Remove the key and read the instructions before performing any maintenance or repair work.
	WARNING--FIRE HAZARD Do not allow debris to accumulate; debris buildup can lead to a fire.
	WARNING--ENGINE STABILITY The cargo area is not a seat. Do not allow anyone to sit or stand on the cargo area. The storage area has a maximum weight capacity of 9 kg. Do not overload the cargo area; it may damage the machine and compromise its stability.



WARNING!

Your responsibility - Limit the use of this electric machine to individuals who read, understand, and follow the warnings and instructions in this manual and on the machine.

SAVE THESE INSTRUCTIONS!

2. Assembly

2.1 FRONT BUMPER ASSEMBLY

Mount the front bumper (1) to the bottom of the frame using the four M8 X 25 screws (3) and M8 nuts (2).

See Figure 2.1

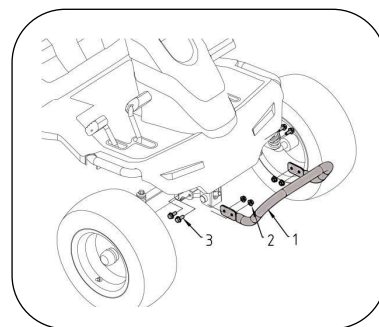


Figure 2.1

2.2 STEERING SHAFT ASSEMBLY

- Mount the joint (2) onto the shaft (4) using the M8 X 20 screw (6).
- Insert the shaft (1) into the joint and tighten the M8 X 20 screws (5).
- Tighten the M8 X 20 screws (3).

See Figure 2.2

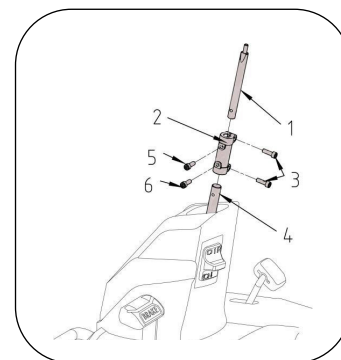


Figure 2.2

2.3 STEERING WHEEL ASSEMBLY

- Insert the M6 nut (1) into the shaft tube (4).
- Insert the shaft tube (4) into the column cover (2) and tighten the M6 X 25 screws (3).
- Insert the splined hub (5) into the shaft (4). Install the steering wheel (6), the spacer (7), and tighten the M8 nut (8).
- Insert the steering wheel cover (9) into the steering wheel and tighten two screws (10).

See figure 2.3.1

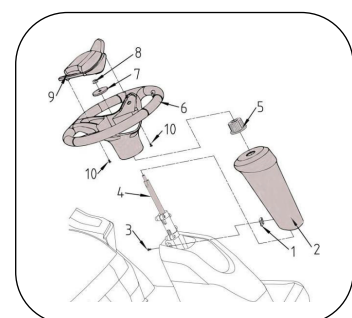


Figure 2.3.1

NOTE:

Pay attention to the direction when installing the steering wheel.

See figure 2.3.2

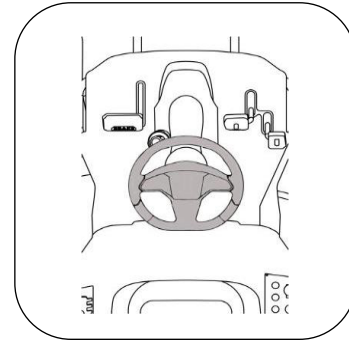


Figure 2.3.2

2.4 SEAT INSTALLATION

- Insert the seat (1) into the seat bracket (welded to the frame)
- Screw in the screws (2) and tighten the M8 nut (3)

See figure 2.4

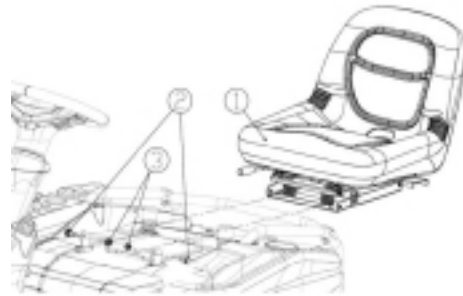


Figure 2.4

2.5 INSTALLATION OF THE SIDE DEFLECTOR

- Insert the spring pin (1) and the washer (2) into the right end of the pin (3);
- Insert the shaft into the side deflector (4), the bracket (6), and the torsion spring (5) in sequence, then insert the washer (2) and the spring pin (1) at the other end.

See figure 2.5

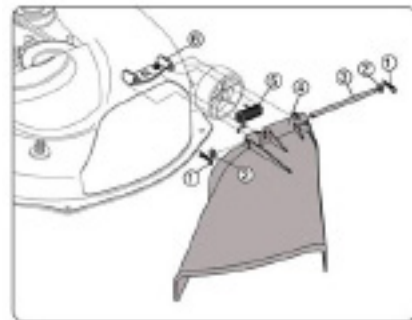
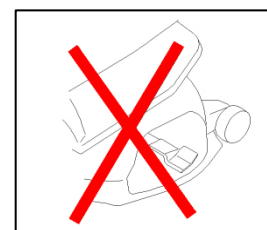


Figure 2.5

Do not allow mowing when the guard is not installed to avoid the risk of injury.

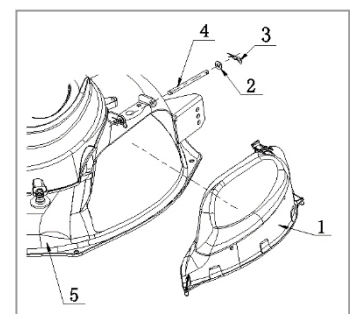


2.6 INSTALLATION OF THE MULCHING KIT (if applicable).

If you choose to mow the grass, mulch it, and leave it on the lawn, a “mulching” kit is available upon request. This must be assembled onto the cutting deck as indicated

- Install the two protruding stepped holes on the mulching cover (1) into the two corresponding holes on the left side of the cutting deck (5);

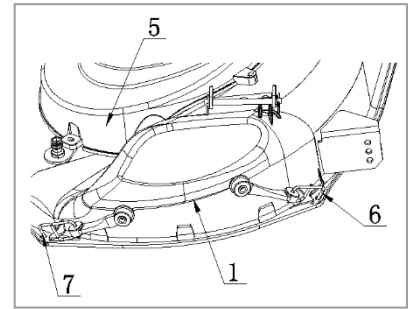
Figure 2.6.1



b. The mulching cover (1) is in close contact with the cutting deck (5), then passes through the pin (4), and then install the gasket (2) and the type B pin (3) on both sides of the pin (4) to lock the mulching cover (1) onto the cutting deck (5).

c. Secure the iron ring buckles (6,7) on both sides of the mulching cover (1) into the corresponding holes on the cutting deck (5). See figure 2.6.1 - figure 2.6.2

Figure 2.6.2



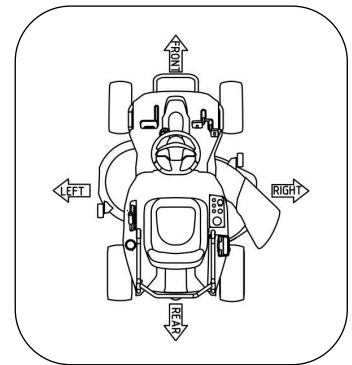
3. Controls and functions

NOTE: References to LEFT, RIGHT, FRONT, and REAR indicate that position on the mower when facing forward while seated on the operator's seat.

Deck height index bracket (manual lifting)

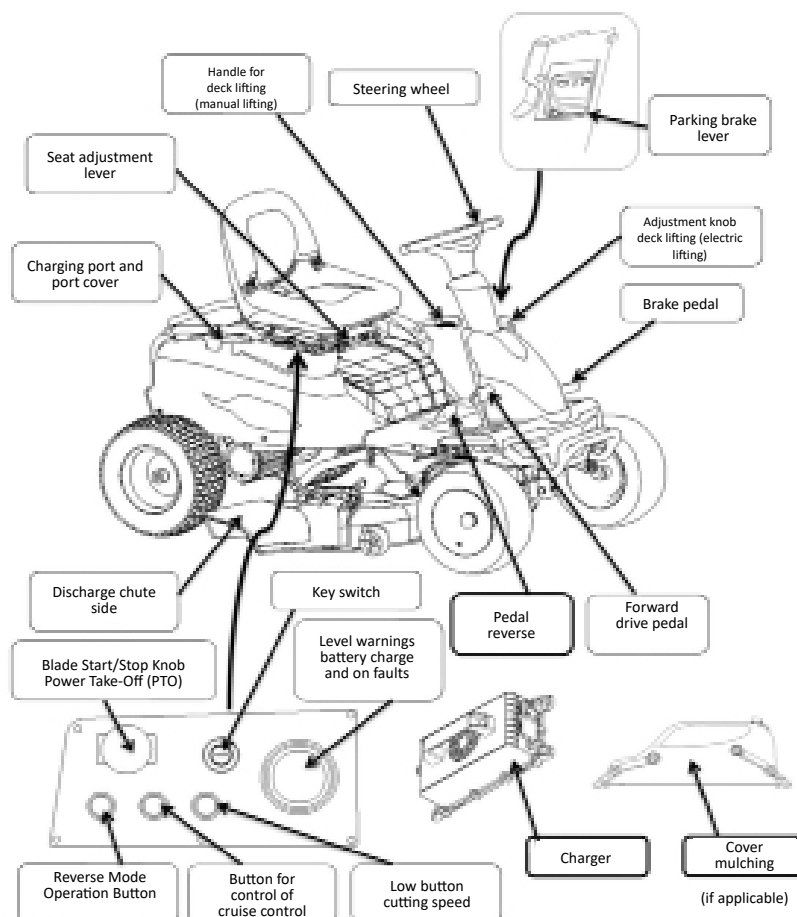
The deck height index bracket consists of eight (8) index notches located on the front of the lift handle console.

Each notch corresponds to a 10 mm (0.394 inch) change in cutting height; ranging from 30 mm (1.18 inches) in position 1, to 100 mm (3.94 inches) in position 8.



Deck lift handle (manual lifting)

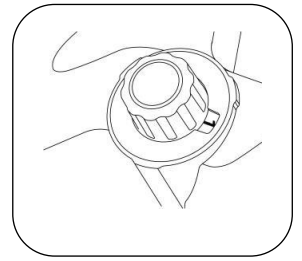
The deck lift handle is located on the front of the lift handle console and is used to raise or lower the mower deck to the desired cutting position. Pull the lift handle out from the index bracket to lower or raise the cutting deck to the desired position. Move the lift handle to the left until it is fully engaged in the index bracket.



Deck lift knob (if applicable).

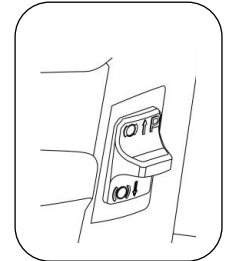
(Electric lift)

The deck lift knob consists of eleven (11) front height positions on the console below the steering wheel, each position corresponding to an 8 mm (0.315 inch) change in cutting height, ranging from 30 mm (1.18 inches) at position 1 to 110 mm (4.33 inches) at position 11. Turn the deck lift knob to the displayed number to lower or raise the cut to the desired position.



Parking brake handle

The parking brake handle is located at the front of the console below the steering wheel. It is used to engage the parking brake when the mower is at rest. Refer to the Operation section of this manual for detailed instructions on the parking brake handle.



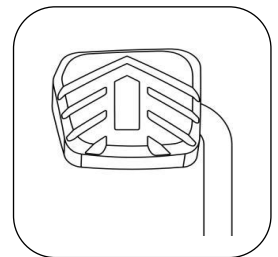
NOTE: The parking brake must be engaged if the operator leaves the seat.



WARNING! Never leave a powered machine running and unattended. Always disengage the blade start/stop knob, stop the mower, set the parking brake, and remove the key to prevent accidental starting.

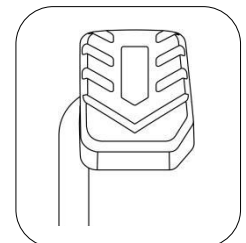
Accelerator pedal

The accelerator pedal is located on the front right side of the panel. Press the pedal to move forward. Ground speed is also controlled with the accelerator pedal. The further the pedal is pressed, the faster the mower will travel. The speed will return to its original position when released.



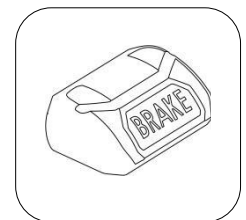
Reverse pedal

The reverse pedal is located on the front right side of the panel. Ground speed is also controlled with the reverse pedal. The further down the pedal is pressed, the faster the mower will travel. The pedal will return to its original position when released.



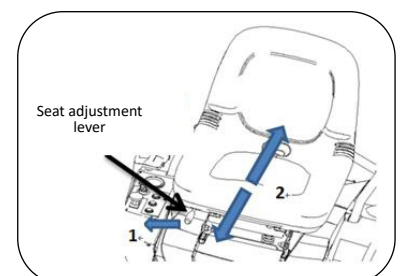
Brake pedal

The brake pedal is located on the front left side of the panel. The brake pedal can be used for sudden stops or to set the parking brake.



Seat adjustment

Tilt seat adjustment lever (1) toward the arrow, moving the seat (2) forward or backward to achieve a comfortable position



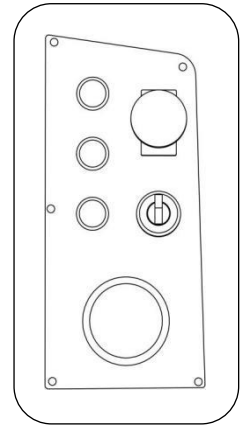
Right console (DX)

Reverse Operation Button (RMO)

The button for the reverse function is located on the right console, to the left of the blade start/stop knob.

Press this button to activate reverse, press it again to deactivate.

NOTE: Mowing in reverse is not recommended.



Right console (DX)

Cruise control button

The cruise control button is located on the right console next to the reverse button (RMO). Pressing the cruise control button while the mower is moving allows the mower to maintain a constant speed without pressing the accelerator pedal. Cruise control can be deactivated by pressing the respective button, the brake pedal, the accelerator pedal, or the reverse pedal.

NOTE: Cruise control will not engage in reverse.

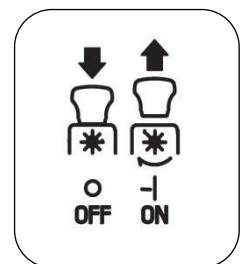
Low Blade Speed Button

The low blade speed button is located on the right-hand console (DX), next to the cruise speed control knob. Pressing the low blade speed button reduces the blade rotation speed to the lower setting of 2900 RPM. (The normal speed is 3200 RPM).

Blade Start / Stop Knob – PTO (Power Take-Off)

The blade start/stop knob (PTO) is located on the right-hand console (DX), in front of the key switch. The blade start/stop knob operates the electric motors on the deck.

Pull the knob up to engage the blades or push the knob down to disengage the blades.



Key Switch

The key switch is located on the right-hand console.

1. The key switch supplies power to the **ignition control module** when the switch is in the position. ☐
2. The key switch supplies power to both the **ignition control module** and the LED lights when the switch is in the **P** position.
3. Turning the key switch to the **0** position turns off the mower and cuts power to the vehicle control module.

Side discharge chute

1. The machine cannot mow grass without the side discharge chute installed.
2. You must check that the side discharge chute has been reset before use. Mowing is not permitted without resetting.
3. A damaged or cracked side discharge chute cannot be used; it must be replaced with a good side discharge chute.

Battery Charge Level and Fault Warnings (LCD)

BATTERY LEVEL INDICATOR

Indicates the average charge capacity of the integrated batteries. Displayed as a bar graph

HOURS OF USE (TOTAL)

Displays the total driving time of the mower. Shown as XXX.X HOURS. Use the hour meter to determine when the mower has reached the recommended maintenance intervals. The hour meter cannot be reset.

ERROR CODE INDICATORS

- MOWER DECK MOTOR OVERLOAD
- DRIVE MOTOR OVERLOAD
- BATTERY FAULT (overload and/or temperature)
- LOW BATTERY INDICATOR
- SEAT SWITCH ERROR

Charging port

The charging port is located on the right-hand console (DX). To access the charging port, lift the charging port cover.

4. Operation

General Safety

- **RECEIVE INSTRUCTIONS** – Read this operator's manual in its entirety. Learn how to operate this machine.
- **SAFETY.** Do not risk INJURY or DEATH. Allow only those who have become competent in its use to operate this mower.
- Do not charge or operate the mower in the rain or in wet areas.
- Do not mow on wet grass. Reduced traction may cause slipping.
- Before starting the mower or beginning operation, become familiar with the controls. The operator must be seated in the operator's seat. The blades must be disengaged and the parking brake must be engaged.
- Keep all guards in place. Keep away from moving parts.
- **NO RIDERS!** Keep all people and pets at a safe distance. Look behind and down on both sides of the mower before and during reversing.
- **DO NOT** direct mower discharge toward people.
- Avoid slopes whenever possible. Never operate on slopes greater than 15°. Slopes with a greater incline present hazardous operating conditions. The mower can tip over.
- Before leaving the operator's seat, disengage the blades and engage the parking brake, turn off the mower, and remove the key. Wait until all movement has stopped before performing maintenance or cleaning.
- Avoid sudden steering movements during starting and stopping. Maintain a firm grip on the steering wheel.
- Use caution when operating near roadways. Stop the mower's movement and wait for vehicles to pass before operating along the road.
- Do not operate the mower with the mower deck removed. Removing the deck will change the mower's balance and may contribute to tipping or rollover.
- Avoid operating on unstable traction surfaces; use extreme caution if the surface is slippery.
- Do not stop or park the mower on combustible materials such as dry grass, leaves, debris, etc.

Before operating the mower

- Before operating the mower, carefully study this operator's manual to become familiar with the operation of all controls and instruments. It has been prepared to help you operate and maintain the efficiency of your mower.
- Check the tire inflation pressures. Refer to the Maintenance and Adjustments section of the operator's manual for more information about the tires.
- Adjust the seat for maximum operator comfort and visibility, and to maintain full control of the mower.

Safety Interlock System

- This mower is equipped with a safety interlock system for operator protection. If the interlock system malfunctions, do not operate the mower. Contact your dealer.
- The safety interlock system prevents the mower from starting unless the parking brake is set and the blades are disengaged.
- The mower will automatically shut off if the operator leaves the seat.
- To test the safety interlock system, leave the mower running, engage the parking brake handle, and rise from the seat for a few seconds. If the mower shuts off, the system is working properly. If the mower does not shut off, do not operate it. Contact your Dealer or Service Center.



WARNING! Do not operate the mower if the safety interlock system does not function properly.
This system has been designed for your safety and protection.

Safety Interlock System



WARNING! This mower is equipped with a safety interlock system designed for operator protection. Do not operate the mower if any part of the system is not functioning properly. Periodically check the proper operation of the safety interlock system.



WARNING! For personal safety, the operator must be seated when starting the mower.



WARNING! Operate the machine at a temperature between +5 and +35°C.

To start the mower, follow the procedure below:

1. Disconnect the charger and fully close the charging port cover.
2. Sit on the mower seat.
3. Make sure the blade start/stop knob (PTO) is in the OFF position.
4. Turn the key switch to the ON position (if your foot is on the forward/reverse pedal, remove it before turning the key); the battery charge level and error warnings (LCD) will light up.
5. Release the parking brake handle

Stopping the mower

1. Disengage the blades by pressing the blade start/stop knob (PTO) down.
2. Engage the parking brake handle.
3. Turn the key switch to the OFF position and remove the key.

NOTE: Always remove the key from the switch to prevent accidental operation or battery discharge if the equipment is left unattended.

Mower Operation



WARNING! Avoid sudden starts, excessive speeds, and sudden stops.



WARNING! Never reach across the steering wheel to press any button on the dashboard while the mower is in motion.



WARNING! When operating the mower immediately after a full charge (i.e., right after removing it from the charger), the mower runs at lower speeds and starts slowly even when the mower pedals are fully pressed. The mower will brake in pulses when traveling downhill during this period. This rapid deceleration is designed to prevent damage to the electrical system. This is normal and will stop once the mower is in use.



WARNING! In the event of a system failure or complete loss of battery power, the mower may unlock the wheel. Press the brake pedal to maintain control and stop the equipment. Restart the mower. If the problem persists, contact your dealer or service center.

1. Release the parking brake handle.
2. To move FORWARD, slowly press the accelerator forward until the desired speed is reached.
3. To move in reverse, look down and behind the mower and slowly press down the reverse pedal with your foot until the desired speed is reached.
4. To slow down the mower, slowly release the forward or reverse pedal. To stop the mower, press the brake pedal.

To use Cruise Control:

1. Press down the accelerator pedal.
2. While maintaining the desired speed, press the cruise control button on the right (DX) console, then release the accelerator to activate cruise control.
3. To release cruise control, press the brake pedal, the accelerator pedal, the reverse pedal, or the cruise control button.

NOTE: Cruise control will not activate in reverse.

Operation on slopes

Refer to the SLOPE GAUGE on page 7 to determine which slopes are safe for mower operation.



WARNING! Do not mow on slopes with a gradient greater than 15 degrees (a an increase of about 70 cm every 3 meters). The mower could tip over and cause serious injury.



WARNING! When operating the mower immediately after a full charge (i.e., right after removing it from the charger), the mower operates at lower speed and starts slowly even when the drive pedals are fully pressed. The mower will brake in pulses when traveling downhill during this period. This rapid deceleration is designed to prevent damage to the electrical system. This is normal and will stop once the mower is in use.

- Mow across slopes, not up and down.
- Use extreme caution when changing direction on a slope.
- Watch out for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause the machine to tip over. Tall grass may hide obstacles.
- Do not turn on a slope unless necessary. If you must turn on a slope, turn slowly uphill and pay special attention while turning. Turning on a slope greatly increases the risk of rollover.
- Avoid stopping while traveling on a slope. If you must stop while on a slope, start smoothly and carefully to reduce the chance of the mower tipping backward.

Engaging/Disengaging the blades

To engage/disengage the blades:

1. To engage the blades, pull up the blade start/stop (PTO) knob.
2. To disengage the blades, push down the blade start/stop (PTO) knob.

Mowing



WARNING! Never reach across the steering wheel to press any button while the mower is in motion.



WARNING! To avoid contact with the blade or a thrown object, keep bystanders, helpers, children, and pets at least 22.8 m away from the machine while it is operating. Stop the machine if anyone enters the area.



WARNING! Plan your mowing pattern to avoid discharging materials toward roads, sidewalks, bystanders, and the like. Also, avoid discharging material against a wall or obstruction that could cause the discharged material to bounce back toward the operator.

- Mow across slopes, not up and down. If mowing a slope, start at the bottom and work upward to ensure turns are made uphill.
- Do not mow at high speed, especially if a mulching kit is installed.
- Do not cut the grass too short. Short grass is prone to weed growth and quickly turns yellow in dry weather.
- For best results, it is recommended to mow the first two rounds with the discharge directed toward the center of the lawn. After the first two rounds, reverse direction to discharge outward for a balanced cut. This will give the lawn a better appearance.
- DO NOT attempt to cut heavy grass, weeds, or extremely tall grass. The mower is designed for mowing lawns, NOT for clearing brush.
- Keep the blade(s) sharp and replace or sharpen them when they become dull. Dull blades reduce battery run time.

Using the mower deck



WARNING! Make sure the area to be mowed is free of debris, sticks, stones, wires, or other objects that could be thrown by the rotating blades.

NOTE: When the battery charge becomes too low, the blades disengage and stop automatically. When this occurs, the mower should be connected to the charger as soon as possible.

NOTE: If the mower stops, the blades stop, or the mower speed is reduced and a buzzer sounds (the sound continues for one minute), refer to the Troubleshooting section of this manual.

1. Set the mower deck to the desired height by moving the deck lift handle to the left, then place it in the notch best suited for the application (for electric lift, turn the deck lift knob to the displayed number to lower or raise the cut to the desired position).
2. Engage the blades by pulling the blade start/stop (PTO) knob. Use the low blade speed button on the right console to select blade boost or normal speed functions, depending on conditions.
3. On the first pass, choose a point on the opposite side of the area to be mowed and keep a straight line toward that point to achieve a quality cut.
4. Slowly press the forward drive pedal until the desired speed is reached and keep the mower directed straight toward the alignment point.

NOTE: The mower speed will affect the quality of the cut. Mowing at full speed negatively affects the quality of the cut. Control ground speed with the drive pedals.

5. When approaching the other end of the strip, slow down or stop before turning.
6. Align the mower with one edge of the mowed strip and overlap it by about 7.6 cm (3 in.).
7. Guide the mower on each subsequent strip to align it with a previously cut strip.
8. To avoid ruts or grooves in the turf, if possible, change the direction in which the strips are mowed by about 45° for the next and each subsequent mowing.

 **WARNING!** Use caution when crossing gravel paths or driveways. Disengage the blades and raise the deck to the highest position before crossing.

NOTE: When stopping the mower for any reason on a grassy surface, always set the parking brake, turn off the mower, and remove the key.

Reverse Mode Operation (RMO)

Reverse Mode Operation (RMO) allows the mower to be used in reverse with the blades engaged.

NOTE: Mowing in reverse is not recommended.

 **WARNING!** Exercise extreme caution when operating the mower in Reverse Mode (RMO). Always look down and behind before and while backing up. Do not operate the mower when children or others are nearby. Immediately stop the mower if anyone enters the area.

To use Reverse Mode Operation (RMO):

1. Start the mower as previously indicated on page 18.
2. Press the Reverse Mode Operation (RMO) button (continuous pressing is required).
3. Always look down and behind before and while reversing to ensure there are no children around.

5 Maintenance and Adjustments

5.1 Maintenance Schedule

Maintenance Schedule	Before use	Every 10 hours	Every 25 hours	Every 50 hours	Prior off-season storage
Lubricate front wheel and wheel spindles			X		X
Lubricate pedal pins		X			X
Grease front fittings			X		
Check the blades	X			X	
Charge the battery	X				X
Check hardware	X				

NOTE: The electrical components of this mower are not repairable. Contact your dealer or service center for questions or problems with this machine.

 **WARNING!** Contact your dealer or service center for replacement parts. Use only identical replacement parts. This will ensure the continued safety of the mower.

 **WARNING!** Before performing any maintenance or repair, stop the mower, disengage the blades, set the parking brake handle, and remove the key to prevent unintentional blade start or mower movement.

Battery Storage

1. Batteries must be stored fully charged. Discharged batteries may freeze during charging at low temperatures.
2. The charger must remain connected to the charging port on the mower when not in use.
3. If it is not possible to keep the charger connected during off-season storage, the batteries must be fully recharged once a month.
4. Store the batteries at 5°C to +35°C.
5. The batteries can be stored for up to 6 months at 25°C, after which a refresh charge is required. For higher temperatures, the time interval will be shorter.

NOTE: It will take about 10 hours to fully recharge the batteries. Leaving the batteries connected to the charger for more than 10 hours will not damage the batteries.

6. Batteries must not be kept in a discharged state. Permanent damage to the batteries may occur.
7. Fully charge the batteries once a month during off-season storage.
8. Fully charge the batteries before returning to service.

Charging the batteries

WARNING! Battery electrodes, terminals, and related accessories contain lead and lead compounds, chemicals known to cause cancer and reproductive harm. Wash your hands after handling.

WARNING! The battery contains corrosive fluid and toxic material – HANDLE WITH CARE. Keep out of reach of children. Do not puncture, disassemble, mutilate, or incinerate. Explosive gases may be vented during charging or discharging. Use in a well-ventilated area, away from sources of ignition.

WARNING! Recharge only with the charger specified by the manufacturer. A charger suitable for one type of battery may create a fire hazard if used with a different battery.

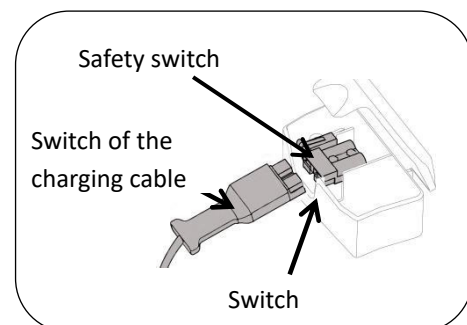
WARNING! Do not charge or use the mower in the rain or in damp locations.

NOTE: The mower batteries are not expected to last for the entire life of the mower. Rechargeable batteries degrade over time and with use. The batteries may eventually need to be replaced. To replace the batteries, contact your dealer or service center for replacement batteries.

NOTE: Replace the batteries if the battery capacity drops below 50% of the original capacity.

NOTE: Using old or defective batteries may cause a system failure resulting in a loss of power.

Refer to the manual provided with the charger for information and instructions on charging the batteries. Lift the charging port cover and insert the charging cable into the charging port located on the left console.





WARNING! The safety switch, located on the left side of the charging port, is part of the safety interlock system. The mower power disengages when the charging port cover is opened.

Charger: Input: 100-240V, 50/60Hz, Max. 4.5A; Output: 48VDC 8A

Batteries must only be charged in an area protected from bad weather, in the shade, at a recommended temperature between 0°C and +35°C. The batteries are equipped with a protection device that prevents charging if the ambient temperature is not between 0 and +45°C.

Battery charging tips

- Use only the charger supplied with this mower.
- The batteries must be recharged before each use.
- It is recommended to charge the mower batteries once a month during off-season storage.
- It will take about 10 hours to fully recharge the batteries. Leaving the batteries connected to the charger for more than 10 hours will not damage the batteries.
- The batteries do not develop a memory and do not need to be fully discharged before recharging.
- Always disconnect the charger (or extension cord, if used) from the power outlet first, then disconnect the charging cable from the charging port.
- It is recommended to charge the mower after each use. Storing the batteries in a discharged state may reduce future performance.

Mower storage

NOTE: Store the mower in a dry place and out of reach of children.

If the lawn mower is not used for an extended period of time (from thirty days to about six months), it must be stored. Store the lawn mower in a dry and protected place. If stored outdoors, completely cover the lawn mower to protect it from the elements. The procedures described below should be performed each time the lawn mower is placed in storage out of season.

1. Thoroughly clean the entire lawn mower.
2. Fully charge the batteries and recharge the batteries every 30 days while in storage.
3. Lubricate all lubrication points.

NOTE: The use of a pressure washer or garden hose is not recommended for cleaning the lawn mower. This may cause damage to electrical components and bearings. The use of excessive water will reduce lifespan and functionality.

Removing the lawn mower from storage

1. Fully charge the batteries and inflate the tires to the recommended pressures.
2. Drive the lawn mower without load to ensure that all systems are functioning properly.

Lawn mower cleaning

A brush, a damp sponge, or a cloth should be used to clean the lawn mower.

NOTE: Do not spray water into the battery compartment when cleaning the lawn mower. This may cause serious damage to the lawn mower's electrical system.

NOTE: To clean the battery cover, the seat must be positioned fully backward and tilted upward to access the area under the seat.

Deck cleaning

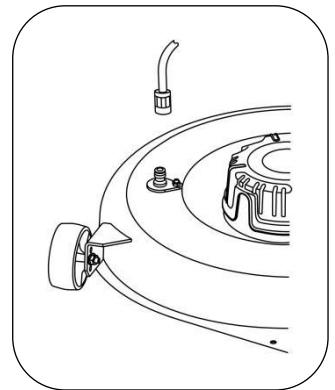
The mower deck is equipped with a water port on its surface as part of its deck washing system. Use the smart jet to rinse cut grass from the underside of the decks to prevent the buildup of corrosive chemicals.

Complete the following steps AFTER EACH MOWING:

1. Drive the lawn mower to a level, clear spot on the lawn, close enough for your garden hose to reach.

WARNING! Make sure the lawn mower's discharge chute is pointed AWAY from the house, garage, parked car, etc.

2. Turn off the lawn mower, disengage the blades, set the parking brake handle, and turn the key switch to the OFF position.
3. Attach the hose fitting to the end of the garden hose.
4. Connect the hose fitting to the water port on the left side of the deck surface.
5. Open the water dispenser.
6. While seated in the operator's position, start the lawn mower as indicated beginning on page 18.
7. Engage the blades.
8. Remain in the operator's position with the cutting deck engaged for at least two minutes, allowing the underside of the cutting deck to be thoroughly rinsed.
9. Disengage the blades.
10. Turn the key switch to the OFF position to shut off the lawn mower.
11. Turn off the water and disconnect the hose fitting from the water port on the deck surface.
12. After cleaning the deck with the smart jet system, return to the operator's position. Start the lawn mower and engage the blades. Keep the cutting deck running for at least two minutes. Allow the underside of the cutting deck to dry completely.



Lubrication

WARNING! Before lubricating, repairing, or inspecting, always stop the lawn mower, disengage the blades, set the parking brake handle, and remove the key to prevent accidental starting.

Front wheels

Each of the front wheel spindles is equipped with a grease fitting. Lubricate with No. 2 multipurpose grease, applied with a grease gun every 25 hours of lawn mower operation.

Steering

The steering box and steering plate fray easily. Lubricate with No. 2 multipurpose grease, applied with a grease gun every 25 hours of lawn mower operation.



Tyres

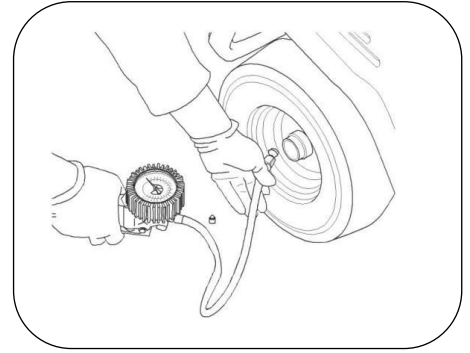
Having the correct tire pressure is the main condition to ensure that the cutting deck is level and mows evenly.

1. Unscrew the protective caps
2. Connect a compressed air line with a pressure gauge to the valves
3. Adjust the pressure according to the values indicated in the "Technical Data" table.

The pressures are:

FRONT Bar 1.2 (15 x 6.0-6)

REAR Bar 1.0 (18 x 8.5-8)



WARNING! Never exceed the maximum inflation pressure indicated on the tire sidewall.

5.2 Adjustments

NOTE: Check the mower tire pressure before making any deck leveling adjustments. Refer to the TIRE for tire pressure information.

Turn off the mower, remove the key, and engage the parking brake handle before making adjustments. Protect your hands by wearing heavy gloves when handling the blades.

Deck leveling (side to side)

NOTE: Check the mower tire pressure before making any deck leveling adjustments. Refer to the TIRE for tire pressure information. Always level the deck from side to side before leveling the rear.

If the cutting deck appears to be mowing unevenly, a side-to-side adjustment can be made. Adjust as necessary as follows:

1. Place the unit on a flat surface and check the tire pressure.
2. Place 26 mm blocks under the front edge of the deck and 31 mm blocks under the rear edge. Adjust the locknut (right and left) to keep the deck in contact with the 26 mm blocks. See Figure 5.1
4. Adjust the locknuts to keep the deck in contact with the 31 mm blocks. See Figure 5. 2

NOTE: Turn clockwise to raise, counterclockwise to lower.

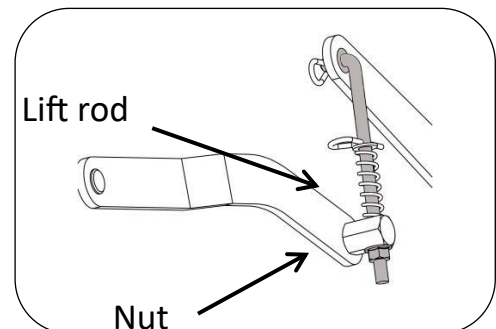


Figure 5.1

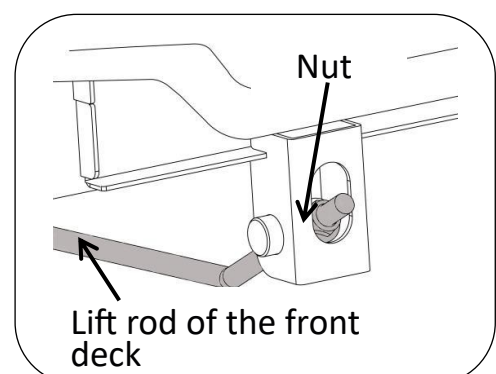


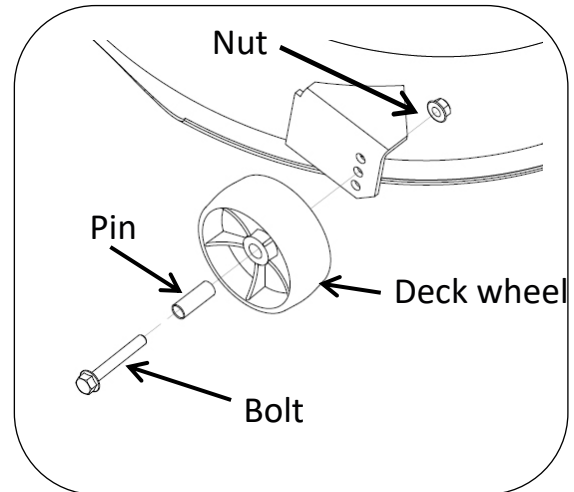
Figure 5.2

Deck wheel adjustment

Move the mower onto a solid, flat surface, preferably paved, and proceed as follows:

1. Set the deck lift handle to the desired cutting height setting.
2. Check the wheels for contact with or excessive clearance from the surface below. The deck wheels should have between 0.6 cm and 0.5 cm of clearance from the ground.
3. If the deck wheels have excessive play or contact with the surface, **adjust as follows:**

- a. Raise the deck lift handle to the highest position.
- b. Remove the front and rear deck wheels by removing the locknuts, sleeves, and bolts.
- c. Set the deck lift handle to the desired cutting height setting.
- d. Reinsert the bolts (with each deck wheel) into the index hole that leaves about 0.6 cm and 0.5 cm between the bottom of the wheel and the pavement.



Parking brake adjustment

If the mower does not come to a complete stop when the brake pedal is fully depressed, or if the rear wheels can roll with the parking brake handle engaged, the brake must be adjusted. Contact your dealer or service center for questions or problems with this machine.

6. Service

WARNING! Contact your dealer or service center for replacement parts. Use only identical replacement parts. This will ensure the safety of the mower.

NOTE: The electrical components of this mower are not user-serviceable. Contact your dealer or service center for questions or problems with this machine.

Blade care

WARNING! When removing cutting blades for sharpening or replacement, protect your hands with a pair of heavy gloves or use a heavy rag to hold the blades.

WARNING! After striking a foreign object, stop the mower. Carefully inspect the equipment for any damage. Repair the damage before starting and using. Hold the blades.

Periodically inspect the blade adapters for cracks, especially if a foreign object is struck. Replace if necessary. Follow the procedure below for blade maintenance:

1. The deck on the mower does not need to be removed. To access the blades, the mower can be placed on a lift, driven onto ramps, or set on stands.



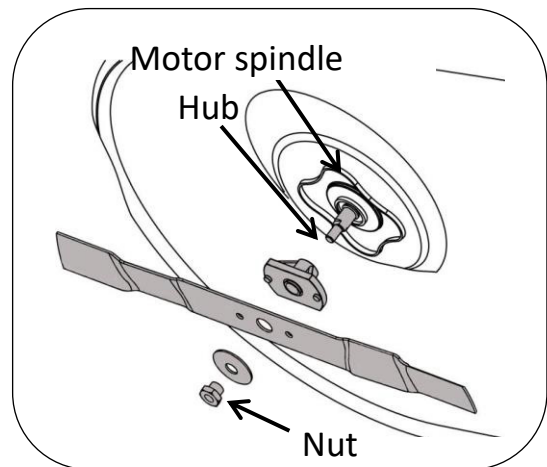
WARNING! Make sure the mower is secured and the parking brake handle is set when removing the blades.

2. Remove the hex nut and the spring washer that holds the blade and the blade adapter to the deck motor.
3. Remove the blade and adapter from the deck motor spindle.
4. Balance the blade on a round-shaft screwdriver to check. Remove metal from the heavy side until it balances evenly. When sharpening the blade, follow the original angle of the blade and cutting edge. Grind or sharpen each cutting edge in the same way to maintain blade balance.



WARNING! An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to the engine or mounting accessories, which could result in personal injury.

5. Visually inspect the blade hub for any damage or cracks.
6. Lubricate the inner surface of the blade hub with light oil.
7. Slide the blade hub onto the spindle. Position the blade on the hub so that the side marked "Bottom" (or with the part number) faces the ground when the mower is in operating position. Make sure the blade is aligned and seated on the flanges of the blade hub.



8. Place the washer with the blade. Replace the hex nut and tighten to a minimum torque of 48 Nm, maximum 52 Nm.

To ensure safe mower operation, periodically check the correct torque of the blade nuts.

7. Troubleshooting

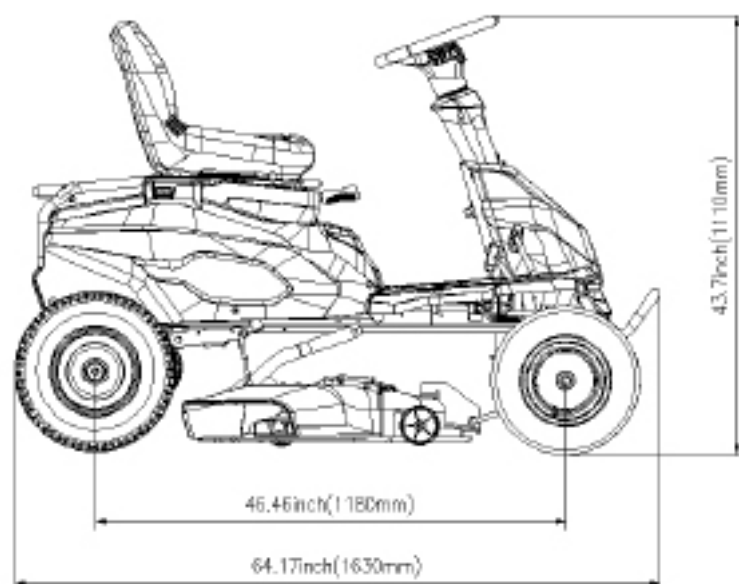
Problem	Cause	Solution
Excessive	1. Damaged or bent blade. 2. Loose or unbalanced cutting blade.	1. Replace the blade. 2. Tighten the blade or correct the angular balance.
Uneven cut	1. Uneven tire pressure. 2. Deck not properly leveled. 3. Dull blade.	1. Check the pressure of all four tires. 2. Adjust the deck from side to side. 3. Sharpen or replace the blade.
The mower does not mulch the grass	1. Blade speed too low. 2. Grass too tall. 3. Wet grass. 4. Dull blade.	1. Activate blade boost. 2. Mow once at a higher cutting height, then mow again at the desired height or use a narrower cutting swath. 3. Do not mulch when the grass is wet. 4. Sharpen or replace the blade.
The mower has stopped or will not start	1. Reset. 2. Hub error. 3. Drive sensor error. 4. Overvoltage. 5. Pre-charge error. 6. Hub communication error. 7. Left deck communication error. 8. Right deck communication. 9. Contactor tips welded closed. 10. Self-test error. 11. Contactor seat switch failure. 12. Charger plugged into the power outlet.	1. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 2. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 3. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 4. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 5. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 6. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 7. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 8. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 9. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 10. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 11. Check if the seat switch is connected. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 12. Disconnect the charger and return to the start request.
The blades do not rotate or the blades stop	1. Left deck malfunction. 2. Right deck failure. 3. Overload 4. Low battery. 5. Brake sensor error.	1. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 2. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 3. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 4. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center. 5. Turn off and restart the mower. If the problem persists, contact your Dealer or Service Center.
The blades do not rotate in reverse	Blades stopped	Always press the Reverse Operation Mode button.
Reduced speed	1. Low battery level. 2. Overload	1. Recharge the battery as indicated in the charger manual. 2. Raise the deck.

8. Technical specifications

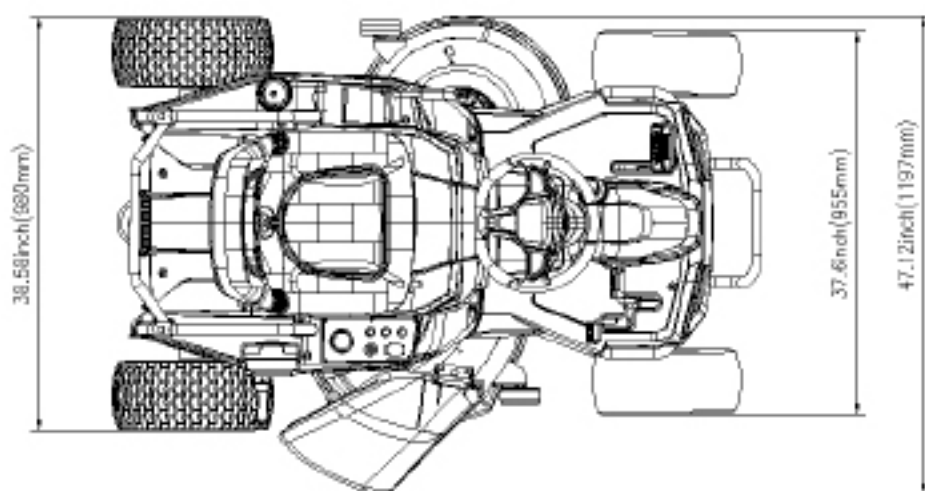
TECHNICAL DATA	BR SD 98	BR SD 108
Battery	LPC12-75(Leoch) 48 V (4x12 V)	LPC12-75(Leoch) 48 V (4x12 V)
Transmission	Reducer	Reducer
Forward speed	12.8 km/h	12.8 km/h
Reverse speed	3.5 km/h	3.5 km/h
Frame	Robotically welded	Robotically welded
Front tires	15.0 X 6.00 - 6	15.0 X 6.00 - 6
Rear tires	16 X 6.5 - 8	16 X 6.5 - 8
Turning radius	R16.14 inches (R 410 mm)	R16.14 inches (R 410 mm)
Length	64.17 inches (1630 mm)	64.17 inches (1630 mm)
Width	47.12 inches (1197 mm)	51.50 inches (1310 mm)
Height	43.70 inches (1110 mm)	43.70 inches (1110 mm)
N.W.	230 kg	240 kg
Blade rotation speed	3200 min ⁻¹	3200 min ⁻¹
Cutting width	38.58 inches (980 mm)	42.52 inches (1080 mm)
Mower deck	Steel	Steel
Cutting heights (manual gear)	From 1.18 to 3.94 inches (from 30 to 100 mm)	From 1.18 to 3.94 inches (from 30 to 100 mm)
Cutting heights (automatic stop)	From 1.18 to 4.33 inches (from 30 to 110 mm)	From 1.18 to 4.33 inches (from 30 to 110 mm)
Blades	Double blades	Double blades
Measured sound power level LWA, dB(A)	91,78	94,24
KWA, dB(A)	2,57	2,07
Guaranteed sound power level LWA, dB(A)	96	96
Sound pressure level near the ear LPA, dB(A)	76,9	81,7
KPA, dB(A)	3,0	3,0
Vibration – Handle (left/right), m/s ²	1,087/1,092	1,209/1,227
Vibrations – Whole body, m/s ²	0,628	0,649
K, m/s ²	1,5	1,5

The declared total vibration value has been measured in accordance with a standard test method and can be used to compare one machine with another. The declared total vibration value can also be used in a preliminary exposure assessment. The vibration emission during actual use of the machine may differ from the declared total value depending on how the machine is used; and it is necessary to identify safety measures to protect the operator based on an estimate of exposure under actual conditions of use (taking into account all parts of the operating cycle such as times when the machine is switched off and when it is idling, as well as trigger time).

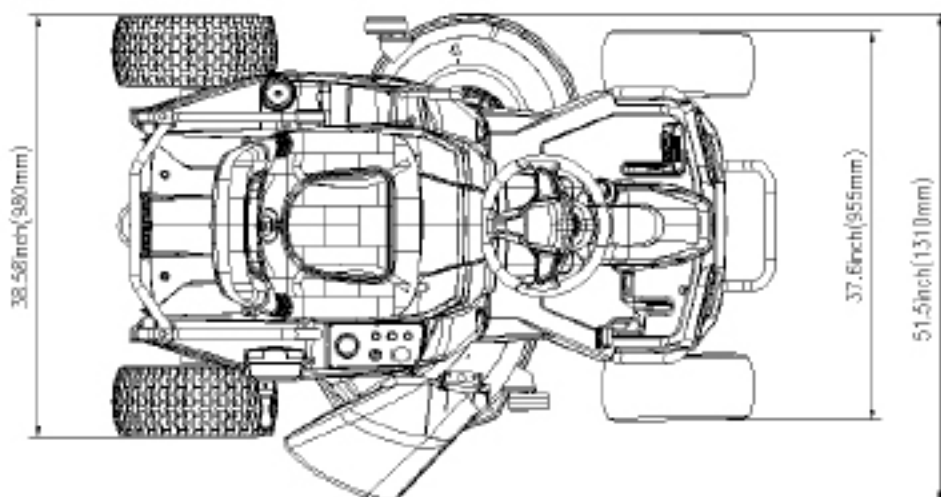
BR SD 98, BR SD 108



BR SD 98



BR SD 108



9. WARRANTY

1. The warranty applies to all material and manufacturing defects that may arise in any country. No further claims of any kind, direct or indirect, relating to persons and/or materials are possible.
2. In case of problems or defects, always consult your dealer. In most cases, the dealer will be able to solve the problem or correct the defect.
3. Repairs or replacement of parts will not extend the original warranty period.
4. Defects arising from improper use or wear and tear are not covered by the warranty.
5. Your warranty claim cannot be processed if:
 - Incorrect or prohibited use or assembly;
 - Use of non-original spare parts;
 - Use of accessories not supplied or approved by the manufacturer;
 - Damage caused by external influences or foreign objects such as sand or stones.
 - Damage caused by failure to follow the instruction manual;
 - Normal wear of consumable materials, such as drive belts, headlights, wheels, blades, shear bolts, and wires.
 - Normal wear.
6. The purchaser is protected by their own national legislation. The purchaser's rights under the national laws of their own country are in no way limited by this warranty.

EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GELIJKVORMIGHEIDSVERKLARING - EC DEKLARATION I OVERENSSTEMMELSE - DECLARAÇÃO CE DE CONFORMIDADE - EY ILMOITUS - FORSAKRAN OM OVERENSSTAMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

1) MANUFACTURER – HERSTELLER – FABRICANT – FABRICANTE – COSTRUTTORE – CONSTRUCTEUR – PRODUCENT – FABRICANTE – VALMISTAJA – TILLVERKARE – FABRIKANT – Κατασκευαστής – PRODUCENT:
Blue Bird Industries Fabbrica Motori s.r.l.
Via Due Camini 19, 36010 Zanè (VI), Italia

2) DESCRIPTION OF THE MACHINERY – BESCHREIBUNG DER MASCHINE – DESCRIPTION DE LA MACHINE – DESCRIPCION DE LA MAQUINARIA – DESCRIZIONE DELLA MACCHINA – BESCHRIJVING VAN DE MACHINE – BESKRIVELSE AF MASKINEN – DESCRIÇÃO DA MAQUINA – KONEEN NIMITYS – MATERIELSLAG – BESKRIVELSE AV MASKINERIET – ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ – OPIS MASZYN:
TRATTORINI TAGLIAERBA A BATTERIA – BATTERY LAWNMOWER TRACTORS

a) MAKE – FABRIKAT – MARQUE – MARCA – MARCA – MERK – MÆRKE – MARCA – MERKKI – FABRIKAT – FABRIKANT – MAPKA – MARKA:
BLUE BIRD INDUSTRIES Fabbrica Motori srl
Via Due Camini 19,36010 Zanè, Italia

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / TYÖO / TYP:
BR SD 98
BR SD 108

2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato VI – Sound Power Levels performed per annex VI	
TIPO	Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA Sound Power Levels Measured / Sound Power Level Guaranteed LWA (dB)
<i>BR SD 98</i>	80/95
<i>BR SD 108</i>	85/97

c) Il prodotto è conforme alle direttive - The product complies with the directives - Das Produkt entspricht den Richtlinien - Le produit est conforme aux directives - El producto cumple con las directivas :

- 2006/42/EC – 2014/30/EU – 2000/14/EC (2005/88/EC) – 2011/65/EU

d) REFERENCE TO STANDARDS/HARMONIZED STANDARDS - VERWEIS AUF NORMEN/HARMONISIERTE NORMEN - REFERENCE AUX NORMES/NORMES HARMONISEES - REFERENCIA A ESTANDARES/ESTANDARES ARMONIZADOS - RIFERIMENTO ALLE NORME/NORME ARMONIZZATE - REFERENTIE NAAR STANDAARDEN/GEHARMONISEERDE STANDAARDEN - REFERENCE TIL STANDARDER/HARMONISEREDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS - VITTAUS STANDARDEIHIN/YHTEISIIN STANDARDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΦΟΡΑ ΣΕ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN ISO 12100 : 2010 EN 6284-1:2015 EN ISO 5395-1:2013+A:2018 EN ISO 5395-3:2013+A:2017+A2:2018

Importato da - Imported by - Eingeführt von - Importé par - Importado por:



BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.
ZANE' (VI) – ITALIA 04-03-2024
The chairman – Der vorsitzender – Le président – El presidente – Il presidente – De voorzitter – Daglig leder – O presidente – Toimitusjohtaja – Verkställande direktör – Administrerende direktør – Ο ΠΡΟΕΔΡΟΣ - Prezes

VANDA VITELLA

(GB) Technical documentation maintained by
(F) Documentation technique maintenue par
(I) Documentazione tecnica conservata da
(DK) Teknisk dokumentation tilhåndhællen av
(FI) Teknisten asiakirjojen ylläpitäjä
(NO) Teknisk dokumentasjon vedlikeholdt av
(D) Technische Dokumentation aktualisiert durch
(E) Documentacion tecnica mantenida por
(NL) Technische documentatie onderhouden door
(P) Documentação tecnica mantida por
(SE) Teknisk dokumentation tilhåndhællen av
(GR) τεχνικό φάκελο που τηρείται από

BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l.

VANDA VITELLA



BLUE BIRD INDUSTRIES Fabbrica Motori s.r.l.

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36010 ZANÉ ITALIA

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