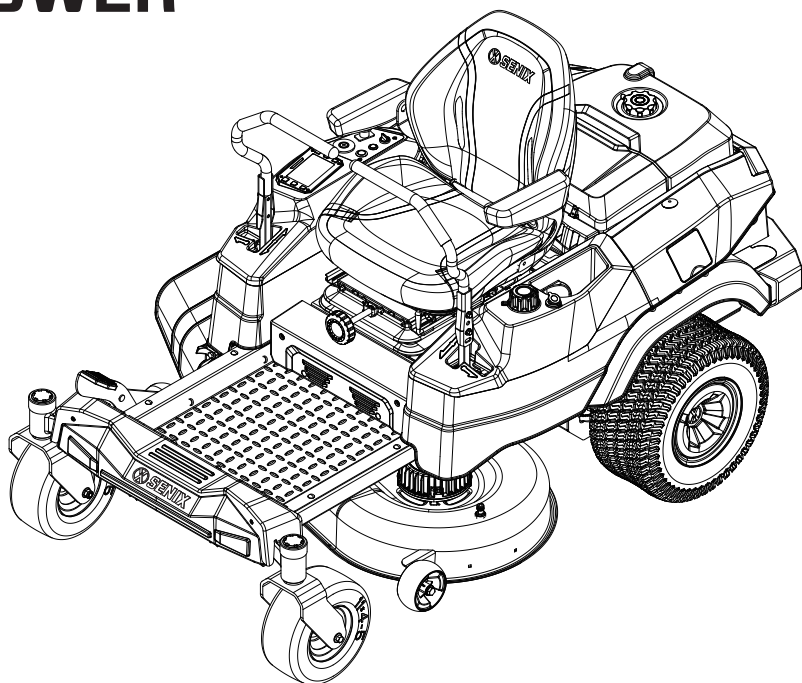




**X6** **60V** LITHIUM-ION **HYBRID**

## HYBRID ZERO TURN RIDING MOWER



**CAUTION:** Before using this tool, please read this manual completely, and follow all operating safety measures.

- **SAFETY**
- **ASSEMBLY**
- **OPERATION**
- **MAINTENANCE**

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## SAFETY & INTERNATIONAL SYMBOLS

The following table depicts and describes safety and international symbols and pictographs that may appear on this product. Read, understand, and follow all instructions on the machine and in the instruction manual for complete safety, assembly, operating, maintenance, and repair information before attempting to assemble and operate.



Safety alert.



To reduce the risk of injury, user must read instruction manual.



Wear eye protection.



Do not expose the product to rain or wet conditions.



Keep bystanders away.



Maintain safety devices.



Look behind while backing.



Steep slope hazard - For your safety, do not attempt to mow steep slopes greater than 15 degrees.



Thrown objects and rotating blade can cause severe injury.



**DANGER!** Rotating blades. Keep hands and feet away.



Never carry children.



RCM Mark



Power tools that are no longer usable and defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

## SAFETY INSTRUCTIONS

### IMPORTANT

#### Safe Practices for Pedestrian-Controlled and Ride-On Mowers

This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

### GENERAL INFORMATION

- Read, understand, and follow instructions and warnings in this manual and on the machine, engine and attachments.
- Only allow operators, who are responsible, trained, familiar with the instructions, and physically capable to operate the machine.
- Do not carry passengers and keep bystanders away.
- Do not operate the machine while under the influence of alcohol or drugs.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never interfere with the intended function of a safety device or reduce the protection provided by a safety device. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build up. Allow machine to cool before storing.



- j. If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.

## PREPARATION BEFORE OPERATING

- a. Clear the operating area of any objects which could be thrown by or interfere with operation of the machine.
- b. Keep the area of operation clear of all bystanders, particularly small children. Stop the machine and attachment(s) if anyone enters the area.
- c. Do not operate the machine without the entire grass catcher, discharge chute, or other safety devices in place and functioning properly. Check frequently for signs of wear or deterioration and replace as needed.
- d. Wear appropriate personal protective equipment such as safety glasses, hearing protection, and footwear.

## OPERATION

- a. Only operate the machine in daylight or good artificial light.
- b. Avoid holes, ruts, bumps, rocks, or other hidden hazards. Uneven terrain could overturn the machine, or cause operator to lose their balance or footing.
- c. Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- d. Do not direct discharge material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.
- e. Do not leave a running machine unattended. Always park on level ground, disengage the attachment, set parking brake, and stop the motor.
- f. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- g. If situations occur that are not covered in this manual, use care and good judgment. Contact SENIX service center for assistance.

## CHILDREN SPECIFIC

- a. Tragic accidents can occur if the operator

is not alert to 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.

- b. Keep children out of the operating area and under the watchful care of a responsible adult other than the operator.
- c. Do not carry children, even with the blade(s) shut off. Children could fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past could suddenly appear in the mowing area for another ride and be run over or backed over by the machine.

## SLOPE SPECIFIC

Slopes are a major factor related to accidents. Operation on slopes requires extra caution.

- d. Travel in the manufacturer recommended direction on slopes. Use caution while operating near dropoffs.
- e. Do not operate machine under any condition where traction, steering, or stability is in question. Tires could slide even if the wheels are stopped.
- f. Always keep the machine in gear when going down slopes. Do not coast downhill.
- g. Avoid starting and stopping on slopes. Avoid making sudden changes in speed or direction. Make turns slowly and gradually.
- h. Use extra care while operating machine with a grass catcher or other attachment(s). They can affect the stability of the machine.

## FIRE AND FUEL SPECIFIC

- a. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- b. Use only an approved fuel container.
- c. Do not remove fuel cap or add fuel with the engine running or while hot.
- d. Do not refuel indoors or in enclosed spaces.
- e. Do not store the machine or fuel container, or refuel, where there is an open flame, spark, or pilot light such as on a water heater or other appliance.
- f. To help prevent fires: keep machine free of grass, leaves, or other debris build up; clean up oil or fuel spillage and remove any fuel soaked debris; allow machine to cool before storing.

- g. Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - h. If fuel is spilled, do not attempt to start the engine and avoid creating any source of ignition until fuel vapors have dissipated.
  - i. Never fill fuel containers inside a vehicle or on a truck bed with a plastic bed liner. Always place containers on the ground away from your vehicle before filling.
  - j. Remove fuel-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a fuel dispenser nozzle.
  - k. Keep nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
  - l. If fuel is spilled on clothing, change clothing immediately.
  - m. Never over-fill the fuel tank. Replace fuel cap and tighten securely.
  - n. Use care in handling fuels. They are flammable and vapors are explosive.
- b. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
  - c. Never allow children or others in or on towed equipment.
  - d. On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
  - e. Travel slowly and allow extra distance to stop.
  - f. Do not tow a cart that exceeds 250 lbs. (113 kg) total rolling weight.
  - g. Attach towed cart only to the hitch. Risk of personal injury or property damage.
  - h. Do not tow on inclines more than 5 degrees / 9%. The weight of the towed cart may cause loss of traction, loss of control and the ability to stop when towing on inclined surface.
  - i. Always use extra caution when towing with your zero-turn mower. Make wide turns to avoid jack-knifing. Use care when reversing.
  - j. Do not tow near ditches, canals, and other hazards. There is a risk of loss of traction or control.

## SERVICE

- a. Keep machine in good working order. Replace worn or damaged parts.
- b. Use caution when servicing blades. Wrap the blade(s) or wear gloves. Replace damaged blades. Do not repair or alter blade(s).
- c. If equipped, disconnect spark plug wire(s) before making any repairs.



**WARNING:** Fluid escaping under pressure may have sufficient force to penetrate skin and cause serious injury. If fluid is injected into the skin, seek immediate medical attention. Keep body and hands away from pin holes or nozzles that eject fluid under high pressure. If a leak occurs, have the machine immediately serviced by a trained technician.

## HAULING

- a. Use full width ramps for loading and unloading a machine for transport.

## TOWING

- a. Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.

## BATTERY LAWNMOWER USE AND CARE

- a. Use lawnmowers only with specifically designated battery packs. *Use of any other battery packs may create a risk of injury and fire.*
- b. Recharge only with the charger specified by the manufacturer. *A charger that is suitable for one type of battery pack(s) may create a risk of fire when used with another battery pack(s).*
- c. Follow all charging instructions and do not charge the battery pack(s) or lawnmower outside the temperature range specified in the instructions. *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*
- d. Do not use a battery pack or lawnmower that is damaged or modified. *Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.*
- e. Do not expose a battery pack(s) or lawnmower to fire or excessive temperature. *Exposure to fire or temperature above 130 °C may cause explosion.*
- f. Under abusive conditions, liquid may

be ejected from the battery(ies); avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. *Liquid ejected from the battery(ies) may cause irritation or burns.*

- g. When battery packs are not in use, keep them away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. *Shorting the battery terminals together may cause burns or a fire.*

## ADDITIONAL SAFETY WARNINGS



### WARNING!

Grass bag components, the side discharge cover, and the mulching insert are subject to wear and potential damage. If these parts become worn or broken, they may expose moving components or allow objects to be thrown, increasing the risk of injury. To ensure safety, frequently inspect all components and replace any damaged parts immediately.

#### 1. Service and Maintenance Guidelines

- Keep the machine in good working condition. Regularly inspect and replace worn or damaged parts. Periodically check the motor and brakes for optimal performance.
- Exercise caution when servicing blades. Always wrap the blade(s) or wear protective gloves when handling them. Replace damaged blades; do not attempt to repair or modify them.
- Disconnect power before servicing. Always stop the motor and remove or disconnect the battery pack before performing maintenance, cleaning, or clearing debris from the ride-on mower.
- Inspect for damage after impact. If the mower strikes a foreign object, immediately stop the motor, remove the battery pack, and wait for the blade to stop rotating. Carefully inspect the machine for damage and repair it before resuming operation.
- Have your ride-on mower serviced by a qualified repair technician using only identical replacement parts to maintain safety and performance.

#### 2. Component & Safety Device Maintenance

- Follow the manufacturer's instructions when changing accessories to ensure compatibility and safe operation.
- Keep the ride-on mower clean and free of grease, dirt, and other combustible materials that could pose a fire hazard.
- Regularly check that all nuts, bolts, and screws are tightened to ensure safe operation.
- Never remove or tamper with safety devices. Regularly inspect safety features to ensure they function properly. Do not modify or disable any safety features, as this reduces the protection they provide.
- Maintain or replace worn safety and instruction labels as needed to ensure visibility and compliance.

#### 3. Battery and Charging Safety

- Recharge the battery only with the charger specified by the manufacturer. Using an incompatible charger may create a fire hazard.
- Do not charge the ride-on mower in the rain or in wet locations to prevent electrical hazards.
- Do not operate a battery-powered ride-on mower in wet conditions or expose it to rain.

#### 4. Storage and Key Safety

- Store the ride-on mower indoors in a dry, locked area, out of reach of children, when not in use.
- Turn off the mower and remove the key before performing any servicing, cleaning, or material removal.

#### 5. User Responsibility

- Save these instructions for reference and use them to educate others who may operate the mower.
- If you lend this product to someone, also provide these instructions to ensure safe and proper use.

## SAVE THESE INSTRUCTIONS INTENDED USE

This lawn mower is designed exclusively for cutting grass in residential applications. Do not use it for any other purpose.

# KNOW YOUR UNIT

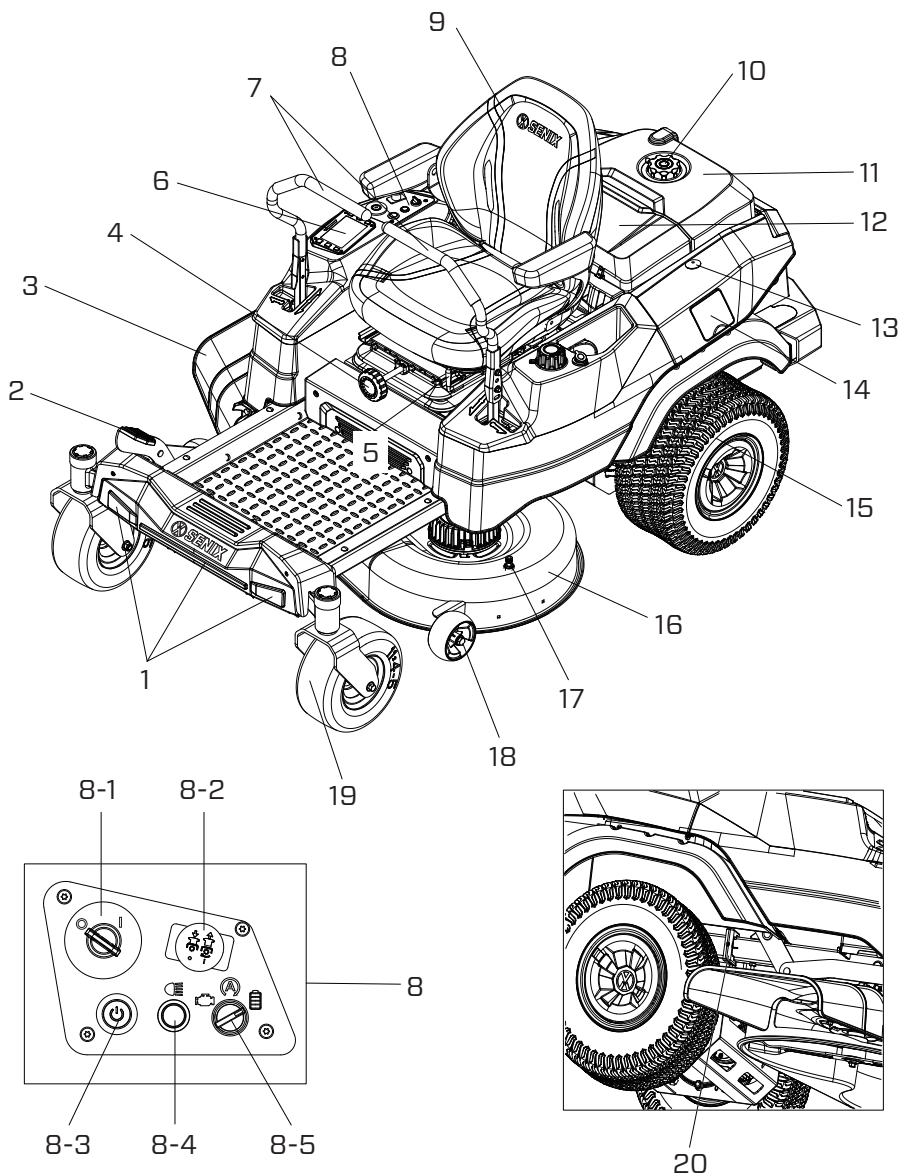
## APPLICATIONS

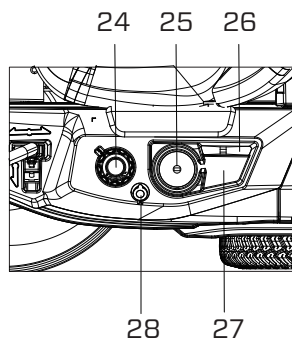
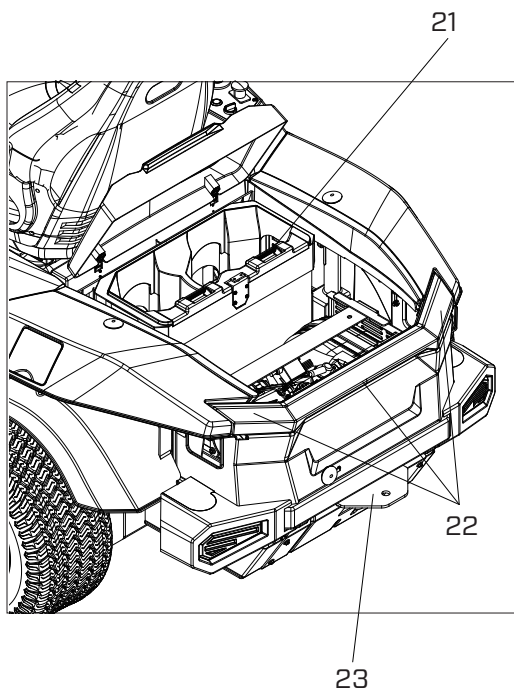
Model: ZTRX6-H-EU

As a hybrid lawn mower:

Cutting grass in residential applications.

## KNOW YOUR MOWER





1	LED Headlights
2	Deck-Height Adjustment Pedal
3	Side-Discharge Chute
4	Seat-Suspension Adjustment Knob
5	Seat Position Adjustment Lever
6	LCD Screen
7	Lap Bars
8	Control Panel
8-1	Key
8-2	PTO Switch
8-3	Start/Stop Button
8-4	LED Light Switch
8-5	Hybrid Mode Switch
9	Seat
10	Fuel Tank Cap
11	Fuel Tank
12	Battery Cover

13	Accessory Mounting Holes
14	Charging Port
15	Rear Wheel
16	Deck
17	Wash Port
18	Anti-Scalp Wheel
19	Caster Wheel
20	Neutral Release Handle
21	Battery-Release Button
22	LED Brake Lights
23	Tow Plate
24	Deck-Height Adjustment Knob
25	Cup Holder
26	Phone Holder
27	Storage Box
28	USB Port

## **WARNING!**

The safe use of this product requires an understanding of the information on the product and in this operator's manual, as well as knowledge of the project you are attempting. Before using this product, familiarize yourself with all operating features and safety rules.

### **Key**

The key must be inserted and turned to the "I" position, press and hold the start/stop button to start the mower.

### **Start/Stop Button**

After the safety key is inserted and turned to the "I" position, press and hold the start/stop button for 0.5 seconds to start the mower. To stop the mower, press and hold the button for 3 seconds.

### **PTO Switch**

Engages the blades.



### **NOTE:**

It is not recommended to engage the deck motors when the mower deck is under a heavy load. If necessary, raise the deck to reduce resistance and then re-engage the deck motors for optimal performance and to prevent damage to the system.

### **Hybrid Mode Switch**

Turn the switch to choose between three power modes below:

- **HYBRID MODE**-The mower operates on engine and battery packs.
- **AUTO MODE**- The mower operates on battery packs and engine(automatically switches on when the battery capacity indicator shows below 30% and shut down when it reaches 90%).
- **ELECTRIC MODE**-The mower operates solely on battery packs.

### **Lap Bars**

The left and right lap bars control the mower's speed, direction, and stopping.

- Pushing the lap bars forward increases speed in the forward direction.
- Pulling the lap bars back moves the mower in reverse.
- Returning the lap bars to the neutral position stops the mower.

- Opening the lap bars engages the electric brake for added safety.

### **Seat-Suspension Adjustment Knob**

Use the seat-suspension adjustment knob to customize the ride comfort based on the operator's weight and the terrain conditions. Adjusting the knob allows for a smoother experience, especially on rough or uneven surfaces.

### **Seat Position Adjustment Lever**

Use this lever to adjust the seat position by moving it back and forth until it reaches the desired setting for optimal comfort and control.

### **Deck-Height Adjustment Pedal/Knob**

The deck-height adjustment pedal and deck-height adjustment knob are used to raise and lower the cutting deck, allowing you to adjust the mowing height for different grass conditions.

### **Anti-Scalp Wheels**

The wheels prevent the deck from contacting the ground and scalping the lawn when passing over high spots, ensuring a smooth and even cut while protecting the turf.

### **Side-Discharge Chute**

Allows the blade to discharge grass clippings through the side discharge opening for efficient mowing. The side-discharge chute comes factory-installed for immediate use.

### **Tow Plate**

This tow plate is designed for towing carts or other wheeled attachments. For safe towing guidelines, refer to the "TOWING" section earlier in this manual.

### **LED Headlights/Sidelights/Brake Lights**

Provides illumination for mowing in low-light conditions and enhances visibility, ensuring the mower can be seen by others for improved safety.

### **LED Light Switch**

Controls the headlights/sidelights/brake lights.

### **Charging Port**

When used with the CHQE16-H1-EU charger, this feature enables charging of the batteries while they remain mounted in the battery compartment for convenience and efficiency.

### USB Port

The USB port provides 5V DC power with a maximum combined output of 2A, allowing you to charge devices such as cell phones, MP3 players, or other USB-powered electronics.



### NOTE:

- Check your device's owner's manual for specific charging requirements.
- Keep the USB cover closed when the USB port is not in use to prevent debris buildup.
- The USB port is only powered when the mower is not in charging mode.

### Storage Box

The storage box provides convenient storage for small personal items. It includes:

- A phone holder for securely storing your mobile device.
- Additional space for other essentials such as keys, gloves, or small tools.

## SMART FEATURES – SENIX APP

Your SENIX zero-turn riding mower is equipped with smart connectivity, allowing communication with the SENIX App for enhanced control and monitoring.

### Key Features of the SENIX App:

- Adjust mower settings to customize performance.
- Modify driving speed for optimal control.
- Check work records to track mowing history and efficiency.
- Receive firmware updates to improve mower performance.

### Firmware Updates & Performance Enhancements:

SENIX engineers regularly release firmware updates to enhance mower performance. These updates may improve various mower functions and features. To ensure your mower is always operating at its best:

- Download and install the SENIX App on your smartphone or tablet.
- Periodically check for updates to maintain peak performance.

### App Download & Pairing:

The SENIX App is available for free on the Apple App Store and Google Play Store. For instructions on pairing your zero-turn riding mower with your smartphone or tablet, refer to the “CONTROLLING THE MOWER VIA THE APP” chapter in this manual.

### Slope Limit Protection

To enhance operator safety when starting or driving on a slope, the mower is equipped with an automatic slope protection system. If the lawn's slope exceeds the designated limit, the mower will:

- Stop the blades from running.
- Prevent driving functionality.

This feature helps reduce the risk of loss of control or tipping when operating on steep inclines.

### Safety Start Interlock System

The mower is equipped with a safety start interlock system designed to prevent accidental starting and ensure safe operation.

This system is designed to protect the operator and bystanders from accidental injury due to unintentional mower starting.

This system consists of the following components:

- Key – Must be inserted and turned to enable operation.
- Start/Stop Button – Used to power the mower on and off.
- Lap Bars in Open Position – Ensures the mower does not start unless the lap bars are in the correct position.
- PTO Switch – Prevents the blades from engaging unexpectedly.
- Seat Switch – Detects if the operator is seated before allowing operation.
- Charging-Port Switch – Prevents operation while the mower is charging.



### WARNING!

Check the safety start interlock system before each operation. This system is a crucial safety feature and should be repaired immediately if malfunctioning.

Never disconnect or bypass the safety start interlock system. Doing so can cause the mower to operate unexpectedly, leading to serious personal injury.

**LCD Screen**

The LCD screen provides real-time monitoring and control of key mower functions. Many of the mower’s features and alerts can be activated and adjusted through this display.

For details on icons and indicators, refer to the “ICONS AND INDICATORS ON THE LCD SCREEN” section of this manual.

**Audio Indicator(Beeps)**

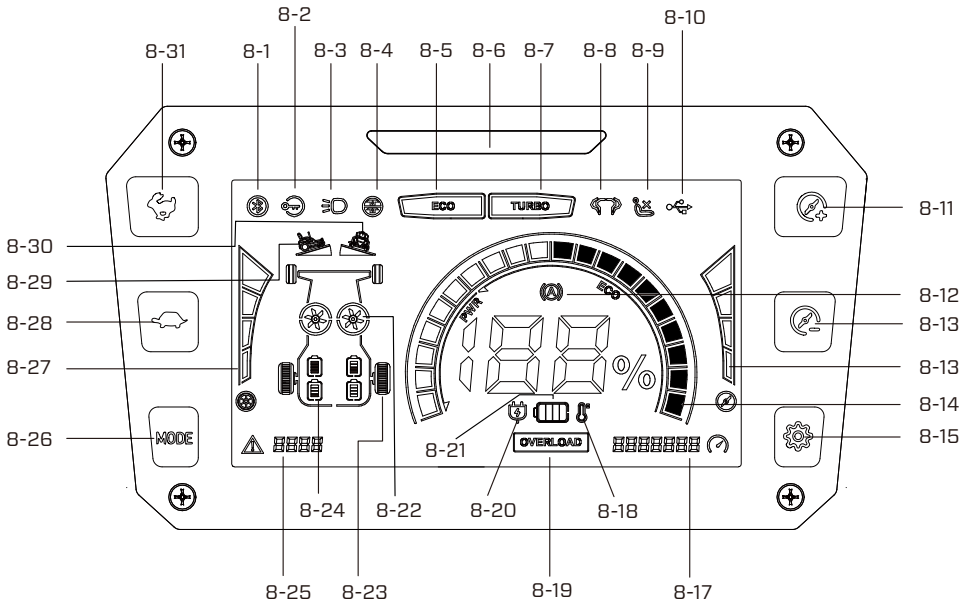
The SENIX electric zero-turn mower is equipped with two buzzers that provide audible alerts for various functions and safety conditions.

Category	When It Activates	Buzzer Sound Behavior
Buzzer 1	Operator leaves the seat while the mower is running.	Intermittent beeping continues
	Start/Stop button is pressed.	Single beep
Buzzer 2	Any button on the LCD screen is pressed.	Single beep
	Key is inserted and turned to the “I” position.	Single beep

These audio alerts help enhance safety and user awareness, ensuring proper operation and immediate feedback during use.



# ICONS AND INDICATORS ON THE LCD SCREEN



8-1	Bluetooth Icon
8-2	Key Icon
8-3	Headlight Icon
8-4	PTO Switch Icon
8-5	ECO Indicator
8-6	Mower Status Indicator
8-7	TURBO Indicator
8-8	Lap Bars Icon
8-9	Seat Icon
8-10	USB Icon
8-11	Increase Blade Speed Button
8-12	Auto-Parking Icon
8-13	Decrease Blade Speed Button
8-14	Blade Speed Indicator
8-15	Load Indicator
8-16	Settings Button

8-17	Hour Meter
8-18	Over Temperature Icon
8-19	Overload Indicator
8-20	Charging Icon
8-21	Battery Capacity Indicator
8-22	Blade Status Icon
8-23	Wheel Icon
8-24	Battery Icon
8-25	Error Code Indicator
8-26	Mode Button
8-27	Driving Speed Indicator
8-28	Decrease Speed Button
8-29	Mower Pitch Angle Icon
8-30	Mower Roll Angle Icon
8-31	Increase Speed Button

### Bluetooth Icon

Illuminates when the mower is successfully connected to the SENIX App via Bluetooth.

### Headlight Icon

Illuminates when the LED headlights are turned on, indicating that the headlights are active.

### PTO Switch Icon

Illuminates when the PTO switch is pulled up to the open position, indicating that the blades are engaged.

### Driving Mode & Indicator




Press the "MODE" button to switch between ECO and TURBO modes. The illumination of the indicators corresponds with the selected mode.

- ECO Mode is the default driving mode, optimizing battery efficiency.
- TURBO Mode increases power for demanding mowing conditions.

### Mower Status Indicator

- Indicator Off - The safety key is not inserted or not switched to the ON position.
- Blue Light - The safety key is inserted and switched to the ON position; the mower is in good operating condition.
- Red Light - The mower is experiencing an issue or error condition and may require troubleshooting.

### Lap Bars Icon

- " " icon indicates that the lap bars are set to open position.
- " " icon indicates that the lap bars are set to neutral position.
- Flashing " " icon indicates that the operator has left the seat, but the lap bars has not been set to the open position.

### Seat Icon

Illuminates when the operator is off the seat, indicating that the mower may not function until the operator is seated.

### Increase/Decrease Blade Speed Button

Allows the operator to adjust blade speed depending on grass conditions. Higher speeds improve cutting performance but may reduce battery runtime. Lower speeds extend runtime and reduce noise levels for lighter mowing conditions.

### Auto-Parking Icon

Illuminates when the lap bars are in the open and neutral position, indicating that the mower has automatically stopped driving.

### Blade Speed Indicator

- Level 1 (ECO Mode) - Lowest noise and longest battery runtime, ideal for light mowing.
- Level 2 (Standard Mode) - Balanced performance for normal grass conditions, providing a mix of power and efficiency.
- Level 3 & 4 (Heavy Duty Mode) - Designed for tall or wet grass, offering maximum cutting power but with higher energy consumption.

### Load Indicator

Displays the current load on the mower, helping the operator monitor power usage and performance.

### Settings Button

Used to calibrate the lap bars for proper operation. See the "CALIBRATE THE LAP BARS" section in this manual for details.

### Hour Meter

Shows the total operational hours of the mower.

Use this to track service intervals based on recommended maintenance schedules. The hours cannot be reset.

### Over Temperature Icon

Illuminates when the battery overheats, signaling the operator to pause operation and allow the system to cool down.

### Overload Indicator

Illuminates when the mower is under excessive load.

Recommended Action: Raise the deck cutting height to reduce load and prevent strain on the motor.

### Charging Icon

- Off: Battery charge is above 10%.
- Flashing: Battery charge is below 10% but not currently charging.
- Solid: Mower is actively charging.

### Battery Capacity Indicator

Displays the current state of charge in percentage and with a battery level icon to provide a clear visual of remaining battery life.

### **Blade Status Icon**

Represents the blades' operational status:

- ZTRX6-H-EU model - Two blade icons.

A blade icon that stops rotating indicates a faulty blade that requires inspection.

### **Wheel Icon**

Displays the status of the rear wheels:

- Two separate rear-wheel icons indicate individual drive motor operation.
- A wheel icon that is off signals that the corresponding drive motor is faulty and may require service.

### **Battery Icon**

Illuminates along with the battery capacity level when a battery is inserted into the corresponding battery compartment.

### **Error Code Indicator**

The on-board computer system monitors the mower for faults and will take protective action if an issue is detected.

If a fault occurs, the system may shut down the machine or a component to prevent damage.

A fault code will be displayed on the LCD screen.

Refer to the "FAULT CODE & MOWER STATUS INDICATOR REFERENCE" section in this manual for details on troubleshooting specific errors.

### **Mower Pitch Angle Icon**

Illuminates when the mower's pitch angle (front-to-back tilt) exceeds the safe operating limit.

### **Mower Roll Angle Icon**

Illuminates when the mower's roll angle (side-to-side tilt) exceeds the safe operating limit, indicating a potential risk of tipping.

### **Increase/Decrease Speed Button**

Allows the operator to select a comfortable driving speed.

# SPECIFICATIONS\*

Model				ZTRX6-H-EU
Deck Size				107 cm
Rated Voltage				56 V $\approx$ (60 V $\approx$ MAX*)
Power Mode				3 (ELECTRIC/AUTO/HYBRID)
Turning Radius				0
Blade Speed				2400-3000 RPM
Blade Quantity				2 pcs
Fuel Tank Capacity				6 L
Engine Oil Tank Capacity				700 ml
Coverage(with 48Ah battery and 6L fuel)				38095 m²
Battery Capacity (optional)				3Ah/4Ah/6Ah/8Ah/12Ah
Driving Speed	Forward	ECO	Level 1	2 km/h
			Level 2	4 km/h
			Level 3	6 km/h
			Level 4	8 km/h
		TURBO	Level 1	3.2 km/h
			Level 2	6.4 km/h
			Level 3	9.6 km/h
			Level 4	12.8 km/h
	Reverse			0-6.4 km/h
Cutting-Height Adjustment				2.5 cm - 11.5 cm (15 positions)
Height Adjust Model				Manual
Max. Battery Quantity				4 pcs
Cold Tire Pressure	Caster Wheels			303.6 kpa
	Rear Wheels			138 kpa
IPX Rating				IPX4
Operating Temperature				0°C-40°C
Storage Temperature				-20°C-70°C
Machine Weight (Tool Only)				282 kg



## NOTE:

Use only SENIX X6 batteries (B30X6, B40X6, B60X6, B80X6 and B120X6) and charger CHQE16-H1-EU.



## NOTE:

To start this riding mower, a total of 12Ah capacity is required. For optimal performance and longer runtime, it is recommended to use SENIX X6 batteries with a total capacity of 48Ah.

## ASSEMBLY

1. Unpack all components from the packaging.
2. Remove all packing materials and any shipping devices, if applicable.
3. Verify the contents of the package (scope of delivery may vary by country and purchased variant):
  - Zero Turn Riding Mower x1
  - Seat x1
  - Lap bars x2
  - Seat nuts x4
  - Lap bar bolts x4
  - Key x1
  - Charger x1
  - Open-end wrench x1
  - Wash-port quick coupler x1
  - Instruction manual x1
4. Check for missing or damaged parts. DO NOT use the mower if any parts are missing or damaged. Contact your dealer for replacements. Using an incomplete or faulty product can pose serious hazards to people and property.
5. Ensure you have all necessary tools and accessories for assembly and operation. This includes personal protective equipment (PPE) such as gloves, safety glasses, and sturdy footwear for safe handling.

### WARNING!



Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling. Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product! Do not insert the battery pack before the power tool is completely assembled or adjusted!

### WARNING!

To prevent accidental starting that could cause serious personal injury, always remove the battery packs from the product when assembling parts, cleaning, or performing maintenance.

### WARNING!

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

### WARNING!

Do not attempt to modify this mower or use unauthorized accessories that are not recommended for this product. Any alteration or modification is considered misuse and may create hazardous conditions, increasing the risk of serious injury or equipment damage. Always use approved parts and accessories as specified in this manual.

## INSTALLING THE SEAT

The mower is equipped with a safety interlock system designed to automatically stop the drive motors and deck motors if the operator leaves the seat while the mower is in operation.

1. Lay the seat on its side to access the underside. Locate the cable plug attached to the mower. Insert the cable plug into the cable connector attached to the seat.

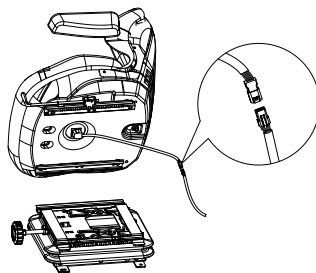


Fig. 1

2. Rotate the two armrests to the horizontal position. Place the seat closely against the front of the suspension base. Insert the two bolts of the seat into the holes in the suspension base and use the supplied wrench to secure the seat with two nuts.

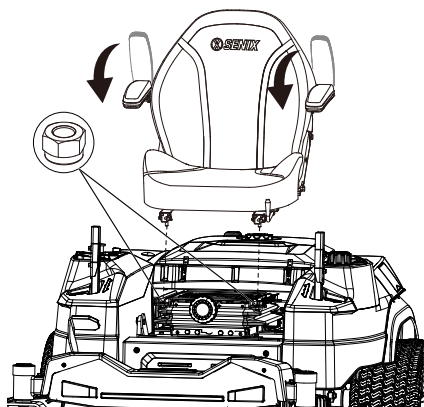


Fig. 2

- Lift the adjustment lever slightly and pull the seat forward to expose the two backside bolts of the seat assembly. Use the supplied wrench to securely tighten the steel rails onto the suspension base using the remaining two nuts.

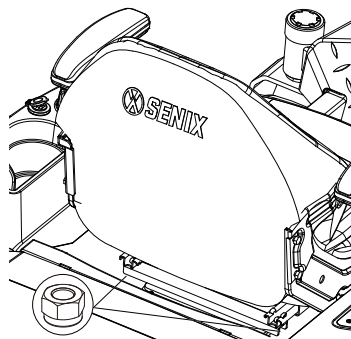


Fig. 3

## ATTACHING THE LAP BARS

- Lift the left lap bar and align its holes with the holes in the left mounting pole.
- Select the preferred operating height:
  - Upper Height: Use the first and third holes in the lap bar.
  - Lower Height: Use the second and fourth holes in the lap bar.
- Insert two bolts through the aligned holes.
- Use the supplied wrench to securely fasten the lap bar to the mounting pole.
- Repeat the process for the right lap bar, ensuring both bars are installed at the desired height.

- Test movement of the lap bars to confirm smooth operation before using the mower.

## **WARNING!**

Ensure both lap bars are securely tightened before operation.

Do not overtighten, but make sure the bolts are snug to prevent movement during use. Proper lap bar adjustment ensures comfortable operation and optimal control of the mower.

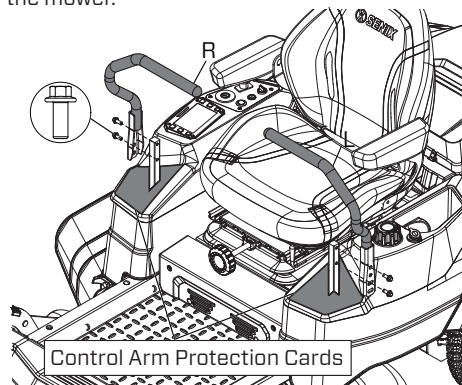


Fig. 4

	Vertical Alignment	Horizontal Alignment
Correct		
Incorrect		



## **NOTE:**

The left and right lap bars should be adjusted so that they align with each other when in the neutral position.



## **NOTE:**

The mower is shipped with Control Arm Protection Cards to prevent bolts from dropping down. Remove the cards after finishing lap bars' installation.

## CHECK THE TIRE PRESSURE

Before using the mower, check and adjust the air pressure in all tires, as they may not be fully inflated during shipment.



## NOTE:

Ensure tires are cold before measuring or adjusting the air pressure.

Recommended Pressure for ZTRX6-H-EU	
Caster Wheels	Rear Wheels
303.6 kpa	138 kpa



## NOTE:

Before inflating the tires, remove the wheel's hubcap to access the valve stem.



## WARNING!

Always check the tire pressure carefully while inflating. Over-inflation can cause the tire to burst, leading to serious personal injury.

## TEST THE MOWER OPERATION

Inspect the entire product for damaged, missing, or loose parts, such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps. Do not operate this product until any missing or damaged parts are replaced.

The mower incorporates a safety interlock system that will stop the drive motors and cutting motors if the operator leaves the seat while the mower is operating. This feature helps prevent runaway accidents and accidental entanglement.

Test the system to ensure it is functioning correctly by following these steps:

1. Position the mower on a level surface.
2. Remove the battery packs from the packaging.
3. Insert the battery packs securely into the mower.
4. Sit down on the mower seat.
5. Ensure the lap bars are in the neutral position.
6. Spread the lap bars to the sides, preventing the mower from moving.
7. Insert the key into the mower and turn it to the "I" position.

8. Press and hold the start/stop button for 3 seconds. The LCD screen will illuminate, and the running lights will turn on, indicating the mower is ready for operation.
9. Pull the PTO switch up to turn on the blade motors.
10. Slowly raise yourself off the seat (but do not fully get off the mower). The blade motors should stop immediately as part of the safety interlock system.

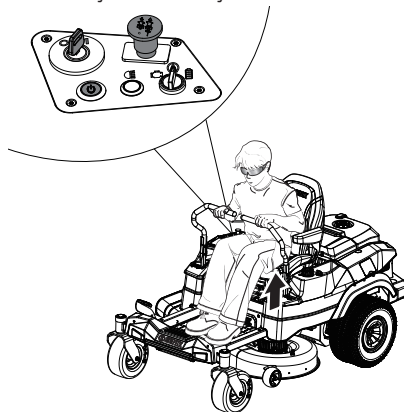


Fig. 5



## NOTE:

If the deck-blade system fails to stop when the operator is off the seat, follow these steps immediately:

1. Push the PTO switch down to stop the blade motors.
2. Ensure the lap bars are in the open position to prevent unintended movement.
3. Disconnect the safety key and remove the battery packs to power down the mower.
4. Check the seat connection:
  - Verify that the cable plug is properly connected.
  - Refer to Step 1 in the chapter "INSTALLING THE SEAT" earlier in this manual.



## WARNING!

If the issue persists after confirming the seat's plug and socket connection, do not attempt further troubleshooting.

Do not operate the mower until the issue is resolved to prevent potential injury. Contact SENIX Customer Service immediately for assistance.

## TEST DRIVING THE MOWER

1. While seated on the mower, ensure it is powered on (LCD screen should be illuminated).
2. Move (fold) the lap bars inward to the neutral position to disengage the electric park brake.
3. Push both lap bars forward to drive the mower forward.
4. Pull both lap bars backward to drive the mower in reverse.
5. While the mower is moving, slowly raise yourself off the seat (but do not fully get off). The driving system should stop the mower immediately as part of the safety interlock system.

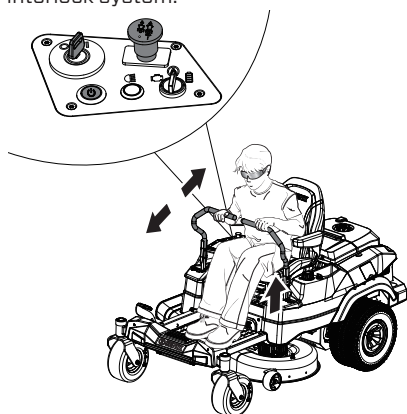


Fig. 6



### NOTE:

If the driving system fails to stop when the operator is off the seat, follow these steps immediately:

1. Stop the mower by returning the lap bars to the neutral position.
2. Spread the lap bars to engage the electric park brake and prevent movement.
3. Disconnect the safety key and remove the battery packs to power down the mower.
4. Check the seat connection:
  - Verify that the cable plug is properly connected.
  - Refer to Step 1 in the chapter “INSTALLING THE SEAT” earlier in this manual.



### WARNING!

If the issue persists after verifying the seat's plug and socket connection:

Do not operate the mower until the issue is resolved.  
Contact SENIX Customer Service immediately for further assistance.

## REGISTER YOUR PRODUCT

Please take a moment to register your mower by visiting [SENIXTOOLS.com](http://SENIXTOOLS.com).

## OPERATION



### WARNING!

The safe use of this product requires an understanding of the information on the machine and in this operator's manual, as well as knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.



### WARNING!

Do not use any attachments or accessories not recommended by the manufacturer of this product to avoid serious personal injury.

## CUTTING-DECK HEIGHT ADJUSTMENT



### NOTE:

The electric zero-turn mower's deck is shipped in the lowest cutting height setting. Before use, adjust the deck height to the optimal cutting position for your lawn.



### NOTE:

To prevent lawn scalping on high spots, the two anti-scalp wheels can be adjusted. Depending on your desired cutting height, you may need to change the position of the anti-scalp wheels. Refer to “ADJUSTING THE ANTI-SCALP WHEELS” section in this manual.

### Cutting Height Options:

The mower offers 15 cutting height levels, ranging from 1" (25 mm) to 4.5" (115 mm). Select the proper cutting height based on grass type and lawn conditions.



### Adjusting the Cutting Height:

1. Step on the pedal to raise the cutting deck.
2. Rotate the cutting-height adjustment knob:
  - Turn clockwise to increase the cutting height.
  - Turn counterclockwise to decrease the cutting height.
3. Once the desired cutting height is reached, stop rotating the knob.
4. Release the pedal to set the deck in place.

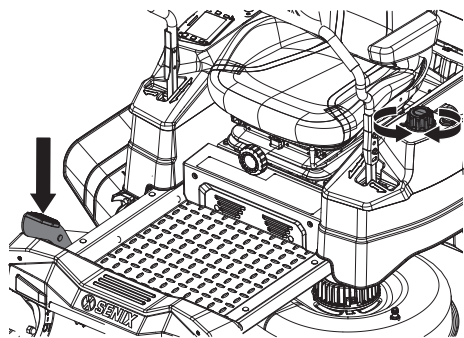


Fig. 7



### NOTE:

Before mowing, ensure the deck is high enough to avoid hitting stumps, rocks, or other obstacles that could damage the mower deck.



### WARNING!

Never attempt to adjust the mower deck while the mower is in motion or the cutting blades are engaged.

The mower blades are sharp and spin at high speeds, making them extremely dangerous. The blades cannot be seen while running and are positioned very close to the deck housing. Severe injuries can occur if they come into contact with the rotating blades.

## SEAT ADJUSTMENT



### WARNING!

Ensure the seat is securely fastened before operating the mower.

An unsecured seat may cause the operator to lose control, leading to serious injury or death. Adjust the seat position so that you can comfortably reach the deck-height adjustment pedal before operating the mower.

### Adjusting the Seat Position:

1. Park the mower on a level surface and stop

the blade.

2. Sit down on the seat and locate the seat position adjustment lever beside the seat.
3. Rotate the lever clockwise and hold it to unlock the seat.
4. Move the seat forward or backward until you reach a comfortable position. Release the lever to lock the seat in place.
5. Ensure the seat is securely locked before starting the mower.

### Adjusting Seat Suspension for Comfort:

1. Use the seat-suspension adjustment knob located on the underside of the seat.
2. Loosen or tighten the knob to adjust the seat suspension for optimal comfort.



Fig. 8



### WARNING!

Always confirm that the seat is locked and properly adjusted before operating the mower.

## ATTACHING/DETACHING THE BATTERY PACK



### NOTE:

To start the mower, a minimum of 12Ah is required.

For optimal performance, it is recommended to use SENIX X6 batteries totaling 48Ah. Store batteries within a temperature range of 50°F - 78.8°F (10°C - 26°C) when not in use.



### WARNING!

Do not operate the mower if any parts are broken or missing.

Do not attach or detach battery packs while the mower is running or the blades are engaged.

## Charge the battery pack(s) before first use!

### Attaching the Battery Packs:

1. Push the battery cover to open it, then lift the cover up.
2. The SENIX hybrid zero-turn mower has four battery slots to accommodate up to four battery packs.
3. Align the grooves in the battery pack with the raised ribs inside the battery compartment.
4. Insert the battery pack into the compartment.
5. Push down on the battery pack until you hear a “click”, ensuring it is securely attached.
6. The battery release button will spring up when the battery pack is properly locked in place.
7. Repeat the process to attach additional battery packs into the remaining compartments.



### NOTE:

Ensure all battery packs are securely locked before closing the battery cover and operating the mower.

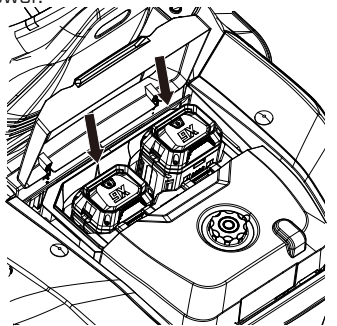


Fig. 9

### Detaching the Battery Packs:

1. Press the battery-release button to unlock the battery pack.
2. Lift the battery pack out of the compartment.
3. Close the battery cover by pressing it down until you hear a clear “click”, ensuring it is securely closed.

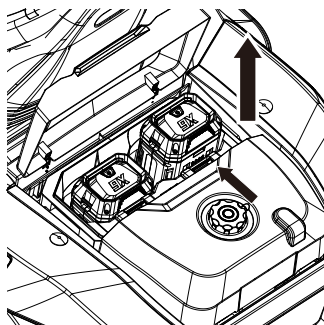


Fig. 10



### WARNING!

If necessary, refer to the manuals for the battery packs and the charger CHQE16-H1-EU for more details about how to charge and other information.

## CHARGING THE ZERO-TURN MOWER

When the battery charge drops below 10%, the blades will automatically stop rotating, leaving the mower drivable only to conserve remaining power.

Recharge the battery packs as soon as possible to restore full functionality.



### WARNING!

Do not attempt to drive across roads or railways when the battery charge level is low. If the battery pack is fully depleted, the blades will stop running, and the mower will no longer be drivable.

### Manually Moving the Mower When the Battery is Depleted:

1. Get off the seat and ensure the mower is powered off.
2. Locate the mower neutral release handle.
3. Pull the handle out and turn it horizontally to engage push mode.
4. Push the mower manually back to the battery-charging area or a safe location.
5. To re-engage the drive system, pull the handle out again and turn it back to the vertical position to lock the mower in place.
6. Remove the key before charging to ensure safety.

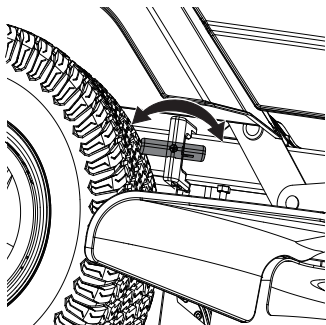


Fig. 11

There are two ways to charge the mower:

### Charging Batteries Separately

- Remove the batteries from the mower.
- Charge the batteries individually using SENIX X6 chargers.
- Follow the instructions provided in the SENIX X6 charger manual for proper charging procedures.

### Charging Batteries While Installed in the Mower

- Use the SENIX CHQE16-H1-EU charger to charge the mower directly with the batteries still installed.
- Follow the instructions in the CHQE16-H1-EU charger manual for safe and efficient charging.

### Charging the Batteries via Charging Port

The battery charging port is located on the left side of the mower. The battery port cover has a battery icon.

#### Charging Steps:

1. Stop the mower and remove the safety key.
2. Ensure the mower comes to a complete stop before proceeding.
3. Align the charger plug properly with the charging port - it will only fit one way.
4. Insert the charger plug securely into the charging port.

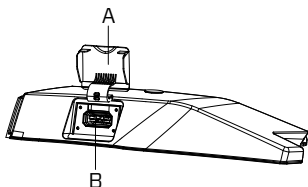


Fig. 12

A	Charging Port Cover
B	Charging port

5. Plug the other end of the charger into a 120V-240V household outlet.
6. The charger will begin charging the batteries. Monitor the LCD screen for charge status.
7. When the batteries are fully charged, disconnect the charger plug from the wall outlet.
8. Remove the charger plug from the charging port.
9. Cover the charging port to protect it from debris and moisture.



### WARNING!

Do not charge in wet or damp conditions to avoid electric shock, fire, or serious injury.

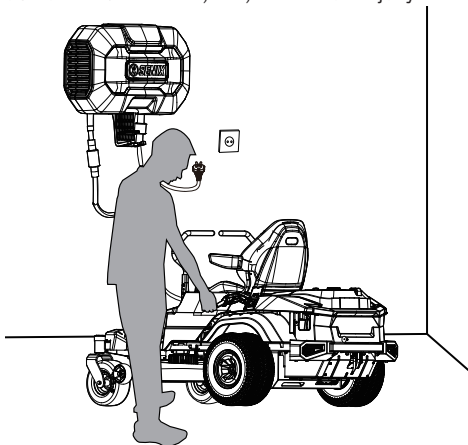


Fig. 13



### NOTE:

SENIX Lithium-Ion batteries do not develop memory, meaning they do not need to be fully discharged before recharging.

### Long-Term Battery Storage & Maintenance:

- Every six months, if the battery is in storage, fully charge the battery pack to maintain optimal battery life.
- Ensure proper ventilation during charging.

## ADDING FUEL



### WARNING!

Fuel and its vapors are extremely flammable and explosive. Extinguish all cigarettes, cigars, pipes, and other sources of ignition when adding fuel, refer to “Fire and Fuel Specific” section in this manual for details.



### WARNING!

The exhaust fumes from the engine contain carbon monoxide, an odorless, poisonous and very dangerous gas. Do not run the mower in closed spaces or spaces without sufficient air flow. Fill the fuel tank outdoors or in a well-ventilated area.



### WARNING!

The engine and the exhaust system become very hot during operation. Turn engine off and let it cool at least 3 minutes before removing the fuel cap.



### WARNING!

Do not use the fuel tank as a support area. Check fuel tank, cap, and fittings frequently for cracks or leaks.



### WARNING!

Incorrect type of fuel can result in engine damage.

1. Clean the fuel tank cap area of dirt and debris before adding fuel.
2. Remove the fuel tank cap. Fill the fuel tank with fuel. To allow for expansion of the fuel, do not fill above the bottom of the fuel tank neck.
3. Reinstall the fuel cap tightly.

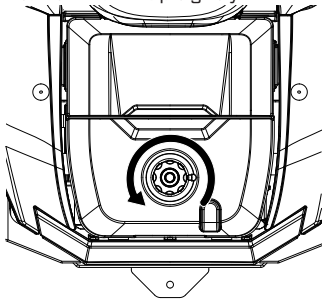


Fig. 14

## BEFORE STARTING THE MOWER

- Ensure the work area is clear of children, bystanders, and pets.
- Remove any objects (rocks, sticks, toys, etc.) from the mowing area that could be thrown by the mower blades.
- Clean debris from the mower, including the deck and air vents.
- Check for loose fasteners and tighten as necessary.
- Ensure all guards are in place and functioning properly.
- Check the tire pressure and adjust if needed.
- Check the fuel and engine oil level and add them if needed.
- Confirm the lap bars are in the open position before starting.
- Test the safety interlock system to ensure it is operating correctly.
- Adjust the deck height to the desired cutting position for the lawn conditions.
- Adjust the seat to a comfortable position for the operator.
- Verify the battery charge level to ensure there is sufficient power for operation.

## CUSTOMIZING YOUR MOWING AND DRIVING EXPERIENCE

For the best mowing experience, customize the following settings based on your mowing conditions and personal preference.

### Selecting Your Driving Mode

The driving mode determines how responsive the mower is to operator controls.

#### ECO Mode:

- Slower acceleration, less sensitive handling, and mild turning speed.
- Protects the grass and is ideal for new users.

#### TURBO Mode:

- Faster acceleration, responsive handling, and sharper turning.
- Improve driving experience on a slope.
- Maximizes mowing area and is best for experienced users.

### How to Select Driving Mode:

Press the “MODE” button on the LCD screen to select between ECO and TURBO MODE.



### NOTE:

The driving mode cannot be adjusted during driving. The change will take effect only when the mower comes to a complete stop and the lap bars are open.

### Selecting Your Driving Speed Level

Driving speed can be adjusted to suit different mowing needs.



**Levels 1 & 2 (Low Speeds)** – Best for precise edging, trimming, or tight areas.

**Level 3 (Standard Speed)** – Best balance between cut quality and battery life.

**Level 4 (Max Speed)** – Best for covering large, flat lawns quickly.

### How to Adjust Driving Speed:

The left buttons on the LCD screen control driving speed.

- Press “” to increase speed.
- Press “” to decrease speed.



### NOTE:

The driving speed cannot be adjusted during driving. The change will take effect only when the mower comes to a complete stop and the lap bars are open.

### Selecting Your Blade Speed Level

Adjusting the blade speed allows you to optimize between cutting performance and battery life.

**Level 1 (ECO Mode)** – Lowest noise level and longest battery runtime.

**Level 2 (Standard Mode)** – Best balance between performance and runtime for normal grass conditions.

**Levels 3 & 4 (Heavy-Duty Mode)** – Higher blade speeds for tall or wet grass.

### How to Adjust Blade Speed:

The right buttons on the LCD screen control blade speed.

- Press “+” to increase the speed.
- Press “-” to decrease the speed.

### Tips to Increase Battery Runtime

To extend your mower’s battery life, follow these guidelines:

- Use as many battery packs as possible.
- Use high amp-hour (Ah) batteries for extended runtime.
- Add enough fuel and engine oil for extended runtime.
- Limit each cut to 1.5 inches (38 mm) of grass per pass.
- Avoid mowing wet grass to reduce motor strain.
- Keep mower blades sharp for efficient cutting.
- Clean the underside of the deck regularly to prevent buildup.
- Lower blade speed when possible to conserve energy.
- Reduce driving speed (Use Levels 1 & 2) to extend battery life.
- Avoid charging external devices using the mower’s USB port, as this drains battery power.

## HYBRID MODE SWITCH

Use the hybrid mode switch on the control panel to switch between HYBRID(a), AUTO(b) and ELECTRIC(c) MODE.

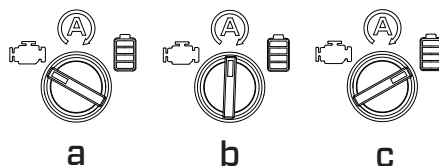


Fig. 15

### HYBRID MODE

In this mode, the engine automatically charges the battery packs when the battery capacity indicator shows below 90% and stops charging once it reaches 90%. The engine will remain running after the charge is complete.

### AUTO MODE

In this mode, the engine automatically switches on to charge the battery packs when the battery capacity indicator shows below 30%. When it reaches 90%, the engine will automatically shut down.

## ELECTRIC MODE

In this mode, the mower operates solely on battery packs. The engine is completely off and will not power on in this mode.

## STARTING THE ZERO-TURN MOWER

Operating a zero-turn mower is different from a standard riding mower. Zero-turn mowers use rear-wheel drive, and each wheel operates independently based on lap bar movements.

Before mowing, practice operating the mower in a large, level, and open area using the following instructions. Once you can comfortably and reliably perform these maneuvers, you are ready to begin mowing.



### WARNING!

Clear the mowing area of bystanders before operating the mower.

If anyone enters the mowing area, stop immediately and do not resume until they have left.

Avoid sudden starts, stops, turns, and excessive speed, especially while learning to operate the mower.

Zero-turn mowers can spin rapidly, which may cause loss of control, leading to serious injury, death, or damage to the mower.

Press the decrease speed button to the lowest speed while learning to limit available speed for safer operation.

### Starting the Mower:

1. Insert the key and turn it to the “I” position.
2. Press down the start/stop button to power on the LCD screen.
3. Check and select the appropriate driving mode by pressing the MODE button.



### NOTE:

It is recommended to start in the lowest driving speed for safe operation.

4. Move both lap bars inward from the open position to the neutral position.
5. You are now ready to maneuver the lap bars for driving.
6. Pull the PTO switch up to engage the cutting blades.
7. Push the lap bars forward to move forward, and pull them back to move in reverse.



## IMPORTANT NOTES:

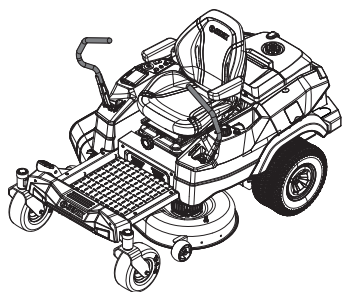
The electric brake will remain engaged until the lap bars are moved from the open position. When the lap bars are returned to the neutral position, the mower stops without electrically braking.

### Slope Protect Feature:

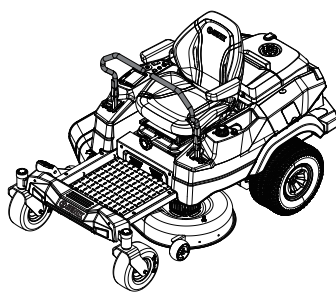
When starting the mower on a slope, the mower will remain stationary even if the lap bars are pushed forward slightly. Once the lap bars are pushed forward enough, the mower will begin moving forward normally.

This prevents unintended sliding when starting on slopes, enhancing operator safety.

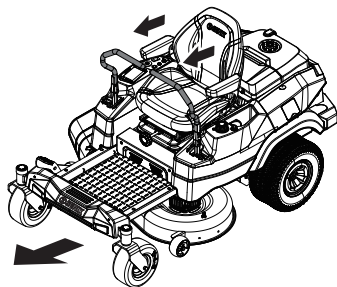
**Open Position (Mower Parking)**



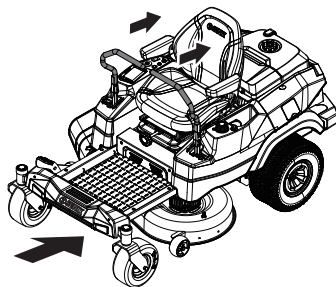
**Neutral Position**



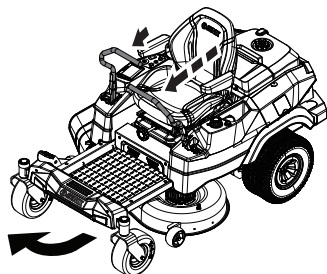
**Forward**



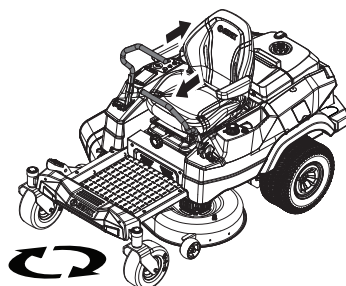
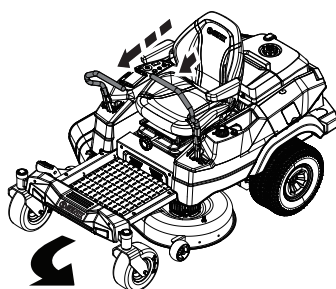
**Backward**



**Turn Right**



**Turn Left**



**Zero Turn**

Fig. 16

# DRIVING THE ZERO-TURN MOWER

After starting the mower, use the lap bars to control movement as follows:

## Basic Driving Controls:

- **To go forward** - Push both lap bars forward an equal distance.
- **To go in reverse** - Pull both lap bars rearward an equal distance.
- **To turn left** - Move the right lap bar farther forward than the left lap bar.
- **To turn right** - Move the left lap bar farther forward than the right lap bar.
- **To execute a zero-radius turn** - Slow down first to prevent turf damage. Move one lap bar forward and the other lap bar backward. This will cause the rear wheels to counter-rotate, enabling a zero-radius turn.



## IMPORTANT NOTE:

Do not move the lap bars rapidly to avoid damaging the electric components.

Aggressive turning can scuff or damage lawns.

Perform zero turns at low speed and keep both wheels rotating for a smoother turn.

For the smallest turning radius, slowly reverse the inside wheel while moving the outside wheel slowly forward.

Do not make turns with the inside wheel completely stopped, as this may cause excessive turf damage.

## Speed Control & Stopping:

- **To stop or decrease speed** - Move the lap bars to neutral.
- While driving forward - Pull back gently on the lap bars.
- While driving in reverse - Push forward gently on the lap bars.
- **To increase speed** - Move the lap bars farther from neutral.
- The farther forward the lap bars, the faster the mower moves forward.
- The farther backward the lap bars, the faster the mower moves in reverse.



## WARNING!

Stay at least two mowing widths (7 feet) away from ditches, drop-offs, or water.

The caster wheels can rotate unexpectedly when the mower is stopped, which could cause the mower to tip over an edge or into water.

Failure to follow this precaution could result in death or serious personal injury.

# STOPPING THE ZERO-TURN MOWER



## WARNING!

Never make sudden stops or abrupt changes of direction, especially when maneuvering on a slope.

The lap bars are designed for sensitive response - rapid movement in either direction can cause a sudden reaction from the mower, potentially leading to serious injury.

## Steps to Stop the Mower:

1. Open the lap bars outward into the stop position.
2. Push the PTO switch downward to disengage the deck motors and cutting blades.
3. Press and hold the start/stop button for more than 3 seconds to turn off the mower.
4. Remove the key from the mower and store it in a safe place.



## NOTE:

If the mower is left idle, it will enter hibernation mode.

The mower will automatically shut off after 15 minutes of inactivity.



## WARNING!

Do not stop the mower on a slope. Always bring the mower to a flat, level surface before stopping.

Never leave the mower unattended with the key inserted, even briefly.

Leaving the key in the mower may allow unauthorized use, potentially leading to serious personal injury.



## **WARNING!**

Always set the lap bars in the open position when leaving the seat!

## **MOWING TIPS**



### **NOTE:**

A sharp blade will significantly enhance mowing performance, especially when cutting tall or dense grass.

Before mowing, inspect the blade's sharpness and sharpen or replace it if needed.

Clear the mowing area of stones, sticks, wires, and other objects that could:

Damage the mower's cutting blades or motors.

Be thrown in any direction, causing serious injury to the operator or bystanders.

## **WARNING!**

If you strike a foreign object, immediately:

- Stop the motors and remove the batteries.
- Thoroughly inspect the mower for damage.
- Repair any damage before restarting and resuming operation.

Excessive vibration during operation indicates potential damage. Stop immediately and inspect the unit.

### **Optimizing Mowing Performance:**

1. Use a high blade speed and low driving speed for the best mowing results.
2. Increase driving speed when the grass is short and not too dense, as it won't affect cut quality.
3. Reduce driving speed when mowing heavy or thick grass to allow for:
  - A more effective cut.
  - Proper discharge of grass clippings.
4. Start mowing at a higher cutting height and gradually lower it to the desired level.
5. If grass is over 6 inches tall, mow twice:
  - First at a higher setting.
  - Second at a lower setting for an even finish.



Fig. 17

6. Do not cut wet grass. Mowing on wet surfaces can cause loss of control and may cause the wheels to sink into soft ground. Wet grass sticks to the underside of the deck, reducing airflow and preventing proper bagging or mulching.
7. Adjust for new or thick grass. Newly grown or dense grass may require:
  - A narrower cutting path to prevent clogging.
  - A higher cutting height to avoid overloading the mower.
8. Keep the mower deck and side discharge chute clean. Remove grass clippings, leaves, dirt, and debris from the deck and discharge chute before and after each use. See the "CLEANING" section in this manual for detailed maintenance instructions.
9. If using the mulching plug, mow more frequently to maintain an even cut and prevent clumps of grass buildup.

## **SLOPE OPERATION**

Before operating on slopes, refer to the "SLOPE SPECIFIC" section in this manual for detailed safety instructions.



### **WARNING!**

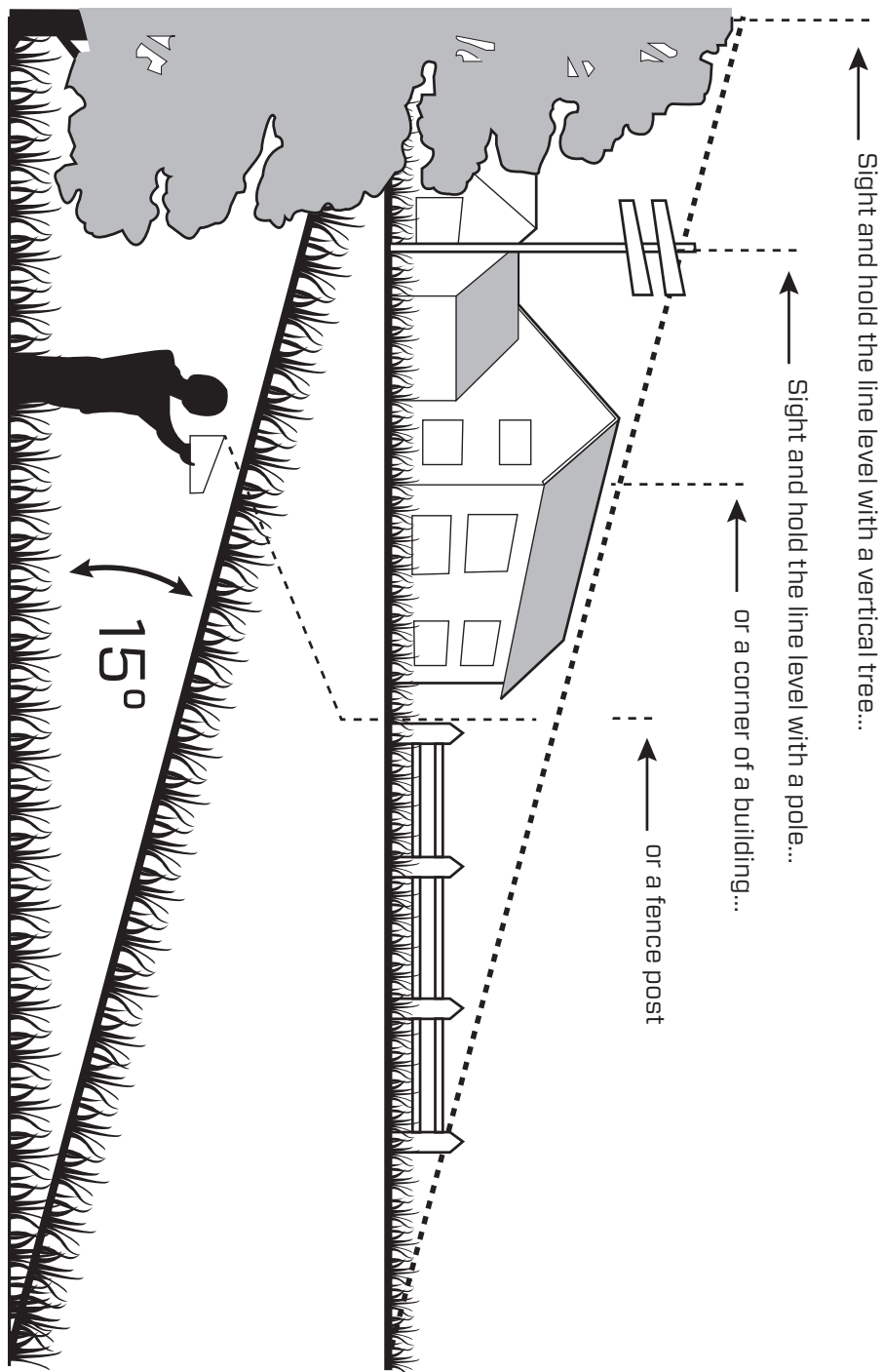
Slopes are a leading cause of tip-over and roll-over accidents, which can result in severe injury or death.

Extra caution is required when mowing on slopes.

If you feel uneasy on a slope, do not attempt to mow it.

Do not mow slopes greater than 15 degrees for safety.

Make a copy or cut out the below slope guide image and use it to determine if your slope is too steep for safe operation.



1. Do not mow on wet grass
  - Wet grass can cause tires to lose traction or slip on slopes, even when the mower is stopped.
  - Slipping on wet slopes increases the risk of losing control or tipping over.
2. Watch for hidden obstacles
  - Check for holes, ruts, rocks, or bumps that could cause you to slip or trip.
  - Tall grass may hide obstacles—remove rocks, tree limbs, and debris that could be tripped over or thrown by the blade.
3. Stay away from dangerous edges
  - Do not mow near drop-offs, ditches, or embankments to prevent accidental tipping or sliding.
4. Drive slowly and avoid sudden movements
  - Maintain steady, controlled movements to prevent skidding or loss of stability.
  - Avoid sudden speed changes or sharp turns on slopes.
5. Avoid stopping on a slope
  - If stopping is unavoidable, ensure the mower neutral release handle is engaged in the vertical position to lock the wheels.
  - When restarting, use the lowest speed setting to maintain control.
  - If turning is necessary, always turn downhill with extreme caution.
6. If tires lose traction:
  - Disengage the blades immediately.
  - Proceed slowly and carefully straight down the slope—do not turn or attempt to regain traction with sharp movements.

## CONTROLLING THE MOWER VIA THE APP

To control the mower using the SENIX App, follow these steps:

1. Download the SENIX App on your smartphone. The app is available via the provided link and QR code.
2. Follow the instructions in the SENIX App Manual for detailed setup and usage guidance.
3. Use the app to monitor and adjust mower settings, including:
  - Driving mode selection (ECO or TURBO)
  - Blade speed adjustments
  - Mower status and diagnostic reports
  - Firmware updates to enhance performance



### NOTE:

The app must be paired with the mower before use.

Refer to the App Operation Manual within the SENIX app for detailed instructions.

### App Store:



### Google Play



## RECOMMENDED MAINTENANCE SCHEDULE(S)

Maintenance Service Interval	Maintenance Procedure
Before each use or daily	<ul style="list-style-type: none"> <li>Check the safety-interlock system.</li> <li>Visually check the tire whether it is inflated.</li> <li>Inspect the blades.</li> <li>Inspect the entire product for damaged, missing, or loose parts such as sidedischarge chute, screws, nuts, bolts, caps, etc., ensuring that all guards are in place and working properly.</li> <li>Check the fuel and engine oil level.</li> <li>Check if the fuel filling system(fuel tank/fuel line/fuel filter) is leaked/damaged. Service or replace if necessary.</li> <li>Clean debris from engine compartment.</li> </ul>
After each use	Clean the mower deck.
Every 25 hours	Check tire pressure.
Every 50 hours	Check/Clean the air filter.
Every 100 hours	<ul style="list-style-type: none"> <li>Check the rear wheels, ensuring that the 4 lug nuts are fastened.</li> <li>Replace the engine oil.</li> <li>Check/Clean the spark plug.</li> <li>Check/Clean the muffler.</li> </ul>
Every 200 hours	<ul style="list-style-type: none"> <li>Check the caster wheels, ensuring that they turn freely.</li> <li>Replace the spark plug.</li> <li>Replace the muffler.</li> </ul>
Before storage	<ul style="list-style-type: none"> <li>Remove the battery packs from the mower.</li> <li>Remove the key from the mower.</li> <li>Perform all maintenance procedures listed above and thoroughly clean the mower.</li> <li>Inspect the entire product for damaged, missing, or loose parts, replace or tighten the corresponding ones before storage.</li> </ul>
Annually	Check the lap bars. Remove all the batteries from the mower and set the lap bars at the open position. Manually push the mower forward to see whether the mower can be moved or not. If it moves, have it serviced by a qualified service technician.



### NOTE:

- Replace the engine oil(700 ml) after the first 25 hours of operation.
- In conditions with dust, cleaning and replacement must be done more frequently.
- All operations should be performed when the equipment is powered off and stopped.
- When adding fuel or oil, the filling port should be cleaned to prevent dirt, dust, and water from entering. Tighten the fuel cap when finished.

## MAINTENANCE



### WARNING!

Before performing any maintenance, stop the mower on a level surface and wait for the blades to come to a complete stop. Stop the engine, remove the safety key and battery packs to avoid accidental starting and possible serious personal injury.



### WARNING!

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.



### WARNING!

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician.



### WARNING!

Strictly adhere to all torque wrench tightening specifications. Failure to do so could cause serious personal injury.



### NOTE:

Remain alert for unusual noises, as they could be signaling a problem. Visually inspect the product for any abnormal wear or damage. Periodically inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc, along with wire and string tangles. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced.

## GENERAL MAINTENANCE

- Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc. Insect repellent spray may damage plastic and painted surfaces.
- Prolonged exposure to sunlight could damage some surfaces.



### WARNING!

Do not at any time let gasoline, petroleum-based products, penetrating oils, etc. come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic which can result in serious personal injury.

## ADJUSTING THE ANTI-SCALP WHEELS

The anti-scalp wheels are designed to minimize the chance of scalping the lawn 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.

The anti-scalp wheels can be set in one of four positions:

Position 1	less than 2 in grass cutting height
Position 2	2 - 3 in grass cutting height
Position 3	3 - 4 in grass cutting height
Position 4	greater than 4 in grass cutting height

The anti-scalp wheels are set at Position 2 by default in production. They are held in place by one nut and lag bolt each.



### NOTE:

One 1/2 in (13 mm) wrench and one 23/32 in (18 mm) wrench are required to adjust the wheels. Neither wrench is included.

### How to adjust:

1. Park the mower on a level surface and set the lapbars to the open position.
2. Remove the safety key and battery packs. Allow the cutting blades to come to a complete stop.
3. Raise the deck to the desired cutting height.
4. Use 1/2 in (13 mm) wrench to stabilize the nut first and then loosen and remove the lug bolt on the other side with 23/32 in (18 mm) wrench.
5. Move the anti-scalp wheel to the desired position. Then, tighten the lug bolt and nut securely with the wrenches.
6. Repeat these steps with the other anti-scalp wheel, making sure both wheels are installed in the same position.

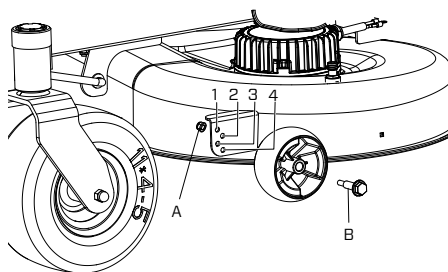


Fig. 18

A	Nut
B	Lug bolt

## LEVELING THE MOWER DECK

### **WARNING!**

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

- If your lawn appears unevenly cut after using the mower or when the mower blade is reinstalled, the mower deck may need adjusting.
- Before deciding that leveling the mower deck is necessary, make sure that the tires are properly inflated to the recommended PSI (Please see section "CHECKING THE TIRE PRESSURE" in this manual). Over- or under-inflated tires can affect the appearance of the grass cutting, and proper inflation of the tires may be all that is needed to resolve uneven cutting issues. If the tires are under or over-inflated, the deck cannot be correctly adjusted.
- Check bent blades prior to leveling. Remove and replace any bent blades. See section "REPLACING THE BLADES" in this manual for reference.
- Adjust the deck while the mower is on a level surface. Raise the deck to the highest position.



### **NOTE:**

Mower deck anti-scalp wheels should not contact the ground when leveling the deck. The deck must be adjusted slightly higher in the rear.



### **NOTE:**

Two 23/32 in (18 mm) wrench are required to level the cutting deck. The wrenches and leveling gauge are not included.

### **To Make Side-To-Side Adjustment**

1. Position both blades so that the ends point toward the sides of the mower.

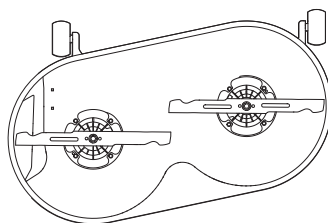


Fig. 19

2. On the outside edge of each blade, measure the distance from the bottom edge of the side of the blade to the ground. If the distance between the two sides is greater than 13/64 in (5 mm), side-to-side adjustment is necessary.

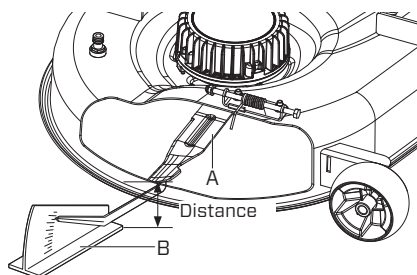


Fig. 20

A	Bottom edge of the blade
B	Leveling Gauge

- On the side you wish to adjust, use a 23/32 in (18 mm) open-end wrench (not supplied) to adjust the four nuts on the left or right side suspension linkages (two for each linkage).

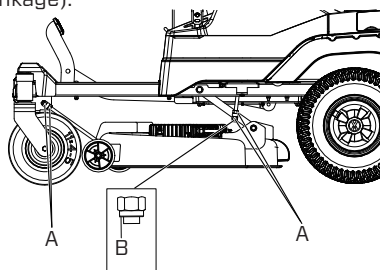


Fig. 21

A	Nut
B	The shoulder facing outward

- Measure again. Continue to adjust and measure until the difference between the distance on each side is within 13/64 in (5 mm).
- Proceed to front-to-back adjustment or retighten the nuts.



### NOTE:

In case of the nut on the back is removed from the tool accidentally, remount it with the shoulder of the nut facing outward.

### To Make Front-To-Rear Adjustment



### NOTE:

Always level the deck side-to-side before making a front-to-rear adjustment.

- Position both blades so that the ends point toward the front and back of the mower.

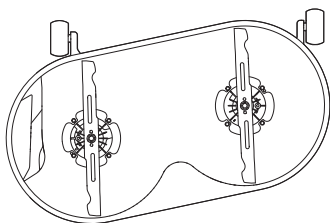


Fig. 22

- Measure the distance from the tip of one blade to the ground. For best results, the front tip of the blade should be from 5/64 in to 25/64 in (2 mm to 10 mm) lower than the rear tip.
- If front-to-rear adjustment is needed, use a 23/32 in (18 mm) open-end wrench (not supplied) to adjust the four nuts on the front or rear suspension linkage (two for each linkage).

## REMOVING THE MOWER DECK



### WARNING!

Ensure the mower is parked securely on a level surface and completely powered off before performing any maintenance.

To remove the mower deck for cleaning or blade replacement, follow the steps below:

- Park the mower on a flat, level surface and move the lap bars to the open (neutral) position.
- Remove the key and battery packs.
- Lower the deck to its lowest cutting height using the deck-height adjustment knob.
- Place a protective mat under the mower deck to prevent scratching or damage during removal.
- Disconnect the front linkages by removing the two nuts securing them, then unhook the linkages from the deck.
- Remove the rear hardware by loosening and removing the nut and bolt from each side of the rear linkages.
- Slide the deck out sideways from under the mower.
- Perform necessary maintenance, such as cleaning the deck or replacing the blades. (Refer to the “REPLACING THE BLADES” section for instructions.)
- Reinstall the deck by reversing the steps above, ensuring all linkages and hardware are securely fastened.

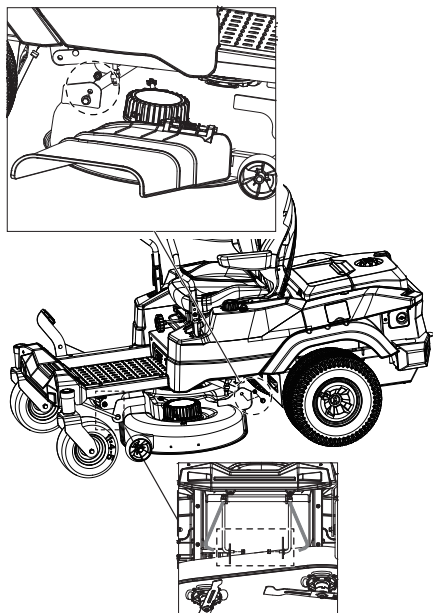


Fig. 23

## REPLACING THE BLADES

### **WARNING!**

Blade replacement should be performed by a qualified service technician.

### **WARNING!**

Always wear heavy-duty gloves to avoid injury during maintenance.

### **WARNING!**

Only use manufacturer-approved replacement blades. Using non-approved blades may result in product damage or pose a serious safety hazard.

Tools Required (Not Included):

- 5/8 in. (16 mm) wrench
- Torque wrench with 5/8 in. (16 mm) socket
- Two screwdrivers or metal rods (approx. 5/16 in. or 8.5 mm diameter) for stabilizing the blade

(Recommended for easier removal): Impact wrench with 5/8 in. (16 mm) socket

## Removing the Blade

1. Remove the mower deck following the steps outlined in the "REMOVING THE MOWER DECK" section.
2. Carefully flip the deck over so the blades are facing upward.
3. Insert two metal rods or screwdrivers (approx. 5/16 in. diameter) into the alignment holes in the blade to stabilize it during removal.

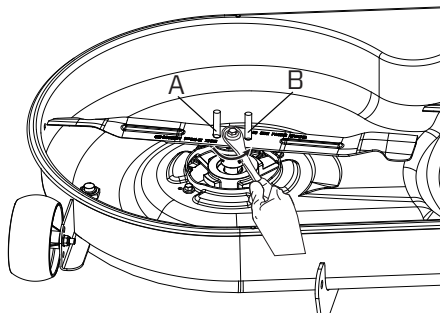


Fig. 24

A	Stabilizer 1
B	Stabilizer 2

4. Using a 5/8 in. (16 mm) wrench or socket, loosen the blade bolt by turning it counterclockwise.
5. Remove the bolt, flange, and blade in sequence.

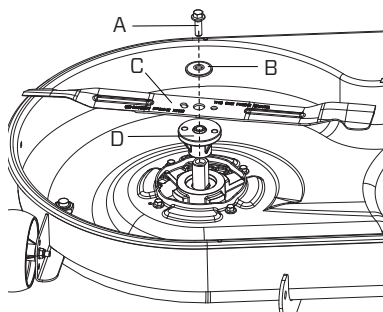


Fig. 25

A	Bolt
B	Washer
C	Blade
D	Blade bearing

6. Inspect the blade bearing. If it appears worn or damaged, replace it along with the blade.



## Installing the Blade

ZTR Model	Blade Model
ZTRX6-H-EU	A022066-139



### NOTE:

When reinstalling or replacing the blade, ensure all components are reassembled in the exact order they were removed.

1. Align the blade with the motor shaft and slide it into position.
2. Place the washer over the motor shaft, ensuring it is seated securely against the blade.
3. Insert the bolt through the washer and into the motor shaft. Tighten the bolt clockwise.

## CALIBRATE THE LAP BARS

If the mower is not tracking straight, first check the air pressure in both rear wheel tires. If the tire pressures are set to the recommendation in section "CHECKING THE TIRE PRESSURE" in this manual, calibrate the lap bars as follows:

1. Insert the battery packs into the battery compartments of the power unit.
2. Insert the safety key and turn it to the "I" position.

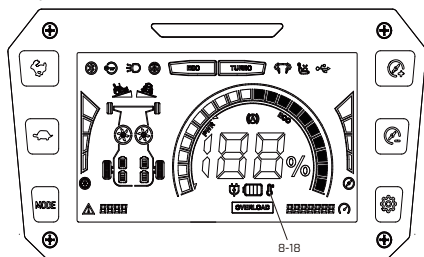


Fig. 26

3. Press the "MODE" and the settings ("⚙️") button at the same time. After that, the two blocks of the very center of the load indicator will light up.

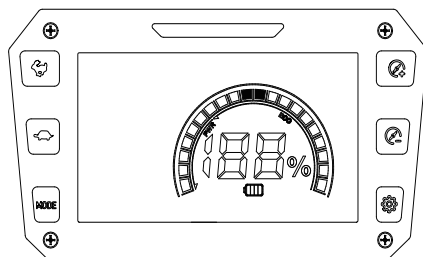


Fig. 27

4. Keep the lapbars in the neutral position while pressing the settings ("⚙️") button.

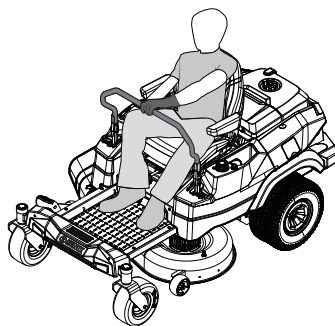


Fig. 28

5. After that, the 7th, 8th, 10th and 11th blocks counting from the left of the load indicator will light up.

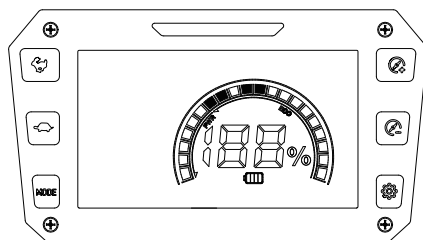


Fig. 29

6. Push the lap bars into the forward position until the end is reached. Hold them with one hand and use the other hand to press down the settings ("⚙️") button at the same time.

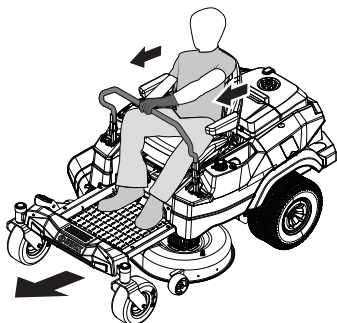


Fig. 30

7. After that, the 10th, 11th, 13th and 14th blocks counting from the left of the load indicator will light up.

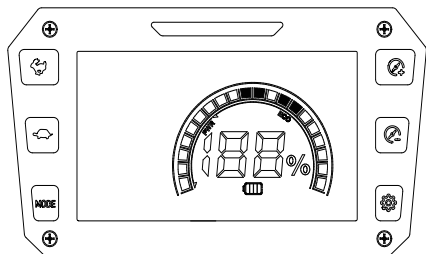


Fig. 31

8. Push the lap bars into the back position until the end is reached. Hold them with one hand and use the other hand to press down the settings ("⚙️") button at the same time.

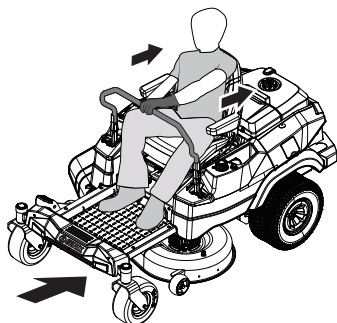


Fig. 32

9. After that, the two blocks of the very center of the load indicator will light up showing the lap bars are finished calibration.

## ENGINE OIL MAINTENANCE

### CHECK THE ENGINE OIL LEVEL

1. Park the zero-turn mower on a level surface and turn off the engine.
2. Remove the key and battery packs to ensure the mower cannot be started accidentally.
3. Unscrew the oil dipstick and wipe it clean with a clean cloth.
4. Reinsert the dipstick fully into the oil tank without screwing it in.
5. Remove the dipstick again and check the oil level.
6. If the oil level is near the tip of the dipstick, add the recommended engine oil to bring it to the proper level.
7. Reinstall the dipstick securely after checking or adding oil.

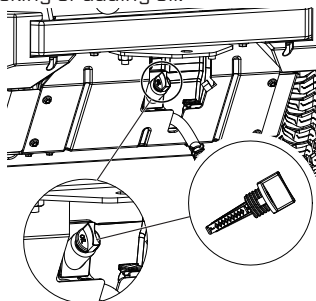


Fig. 33

### REPLACE THE ENGINE OIL



#### NOTE:

If the engine is cold, start the engine and let it run for 1–2 minutes before draining the oil. Warming the oil helps it flow more easily, allowing for a more complete drain.



#### WARNING!

Let the engine become cool before you drain the engine oil. Do not run the engine for more than 1–2 minutes before draining the oil. Prolonged operation can cause the engine oil to become extremely hot, posing a risk of burn injuries.

Always allow the engine to cool down before proceeding with the oil drain.



#### WARNING!

If engine oil comes into contact with your skin, wash the affected area thoroughly with soap and water.

### To Drain the Engine Oil

1. Park the mower on level ground and turn off the engine.
2. Remove the key and battery packs to prevent unintentional starting.
3. Pull out the oil drain hose and position a suitable container underneath to collect the used oil.
4. Remove the drain hose cap and allow all oil to drain completely.
5. Once drained, reinstall the cap securely and wipe away any spilled oil.
6. Return the drain hose to its designated storage position.

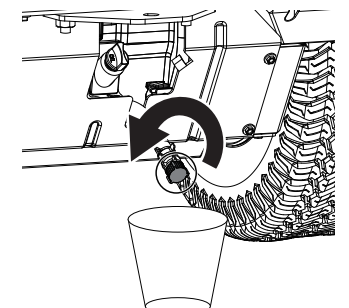


Fig. 34

### To Refill Engine Oil

1. Remove the dipstick from the oil tank.
2. Insert an oil funnel (not included) into the oil fill port.
3. Add 0.74 qt (700 ml) of recommended engine oil into the oil tank.
4. Do not overfill.
5. Reinstall the dipstick securely into the tank.



### NOTE:

Properly dispose of the used engine oil in accordance with local regulations.

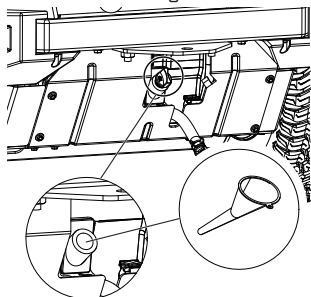


Fig. 35

## AIR FILTER MAINTENANCE



### NOTE:

A dirty air filter can restrict airflow to the carburetor, potentially causing engine performance issues or carburetor failure. To ensure optimal engine operation, inspect and clean the air filter regularly.

### Maintenance Schedule:

- Every 50 hours of use
- Every 25 hours in dusty conditions

### Cleaning Instructions

1. Loosen the wing nut and remove the air filter cover and filter in sequence.
2. Clean the filter using a non-flammable or high-ignition point solvent, then allow it to dry completely.
3. Replace the filter if it is excessively dirty or damaged.
4. Reinstall the air filter and cover in the correct order, and securely tighten the wing nut.

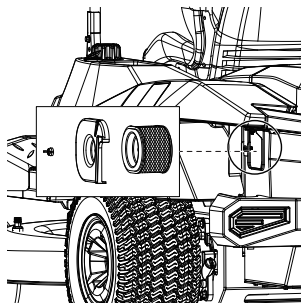


Fig. 36

## SPARK PLUG MAINTENANCE



### WARNING!

Never do this work if the engine is still warm!

### Tools Required:

- Spark plug wrench (not included)
- Spark plug gap gauge(not included)

## Maintenance Procedure

1. Loosen the three bolts securing the fuel tank.

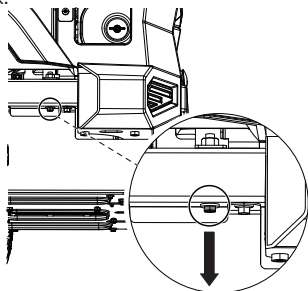


Fig. 37

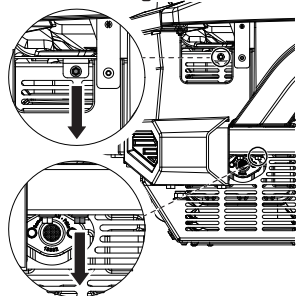


Fig. 38

2. Lift the fuel tank with the help of another person to access the spark plug area.

### CAUTION:

Ensure the fuel tank is securely held during maintenance to prevent tipping or spillage.

3. Clean any dust or debris around the spark plug area to prevent contamination during removal.
4. Remove the spark plug cover, then use a spark plug wrench to remove the spark plug.
5. Inspect the spark plug:
  - If the insulator is cracked or debris is present, replace the spark plug.
  - If the spark plug is in good condition, clean it with a wire brush.
6. Using a gap gauge to check if the spark plug gap is between 0.024–0.028 in. (0.6–0.7 mm). If not, replace with a new one.
7. Reinstall the spark plug by hand to avoid cross-threading. If installing a new spark plug, tighten it an additional 1/2 turn with a wrench to seat the washer. If reinstalling a used spark plug, tighten it an additional 1/8 to 1/4 turn.

8. Lower the fuel tank back into position and securely tighten the three bolts.

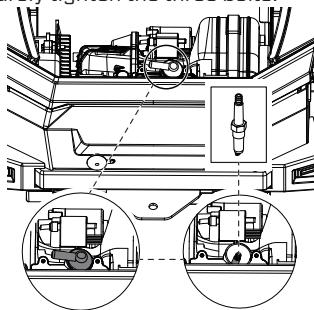


Fig. 39

## CLEANING

Use the wash port to clean the underside of the mower deck after each use. Grass clippings, leaves, dirt, and moisture-rich debris tend to accumulate under the deck, especially after mowing wet or damp grass.

This build-up can:

- Harden over time, restricting blade and airflow movement.
- Lead to a decline in cut quality.
- Promote rust and corrosion, reducing the lifespan of your mower.

### USING THE WASH PORT TO CLEAN THE MOWER DECK



### NOTE:

Follow this procedure after each use to prevent build-up and remove corrosive lawn chemicals.



### WARNING!

You may clean the machine with mild detergent and water.

Do not use a pressure washer.

Avoid excessive water near the control panel, under the seat, around motors, electric components, and bearings to prevent damage.

### Cleaning Procedure:

1. Set the lap bars to the open position and ensure the mower is completely stopped.
2. Adjust the mower deck to the lowest cutting height. Refer to section “CUTTING-DECK HEIGHT ADJUSTMENT” for details.
3. Attach a wash-port quick-coupler to a garden hose.

4. Connect the garden hose with quick-coupler to the wash port on the left side of the mower deck.
5. Push until you hear a clear "click" to confirm secure attachment.

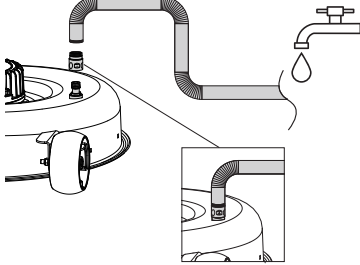


Fig. 40

6. Turn on the water to begin flushing.
7. Pull the PTO switch up to start the mower blades.
8. Set the blade speed to the highest level and flush water under the deck for approximately 1 minute.
9. Push the PTO switch down to disengage the mower blades.
10. Turn off the water and disconnect the garden hose and quick-coupler from the wash port.
11. Remove the quick-coupler from the hose and store it safely for future use.
12. Turn off the mower completely. Refer to section "STOPPING THE ZERO-TURN MOWER" for proper shutdown procedure.

### CLEAN THE MUFFLER

Keep the muffler free from grass cuttings and dirt. Grass cuttings around the muffler dry quickly and are a fire risk. Use a brush or remove the grass cuttings with water when the muffler is cold.

## STORAGE

- Remove the battery packs from the mower and store the batteries in a cool, dry location.
- Remove the key from the mower.
- Thoroughly clean the mower. See section "CLEANING" in this manual for reference.
- Inspect the mower for worn or damaged parts and tighten any nuts or screws that may have become loose.
- Store the mower in a dry, clean location. Store the mower in a covered, enclosed space, out of the reach of children.

## TRANSPORTATION

### ! WARNING!

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

### ! WARNING!

For your safety, make sure that the incline of the ramps is less than 15° whenever possible.

### ! WARNING!

To reduce the risk of injury and property damage, never drive the machine up or down the ramp.

1. Make sure your trailer is parked on a level surface.
2. Ensure the cutting deck is raised to the highest position so that it is not caught on the ramp.
3. Pull the mower neutral release handle slightly out and then turn it horizontally to make sure the mower is able to be pushed.
4. Load the mower in reverse on approved ramps of a maximum operation angle of 15°. Do not lift the mower.

### ! WARNING!

Always make sure the ramps are properly secured. Improperly secured ramps may cause the machine to fall down, causing serious personal injury and damage.

5. Once the machine is in the bed of the trailer, pull the mower neutral release handle out again and turn it back to the vertically position.
6. Secure the mower as needed using straps or cables to prevent movement during transport.

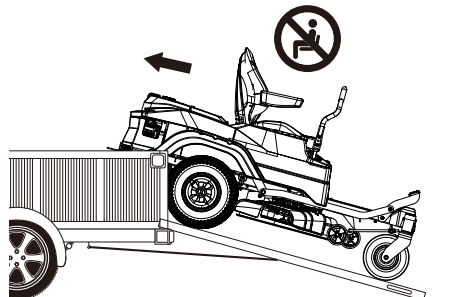


Fig. 41

# TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

PROBLEM	POSSIBLE CAUSE	SOLUTION
ENGINE FAILS TO START	Oil system and/or electrical circuit abnormal	Contact a qualified service technician for inspection and repair.
	Out of fuel	Fill the fuel tank with the recommended fuel.
	Engine oil level too low	Add the recommended engine oil.
	Damaged or incorrectly gapped spark plug	Replace with a new spark plug as outlined in the "SPARK PLUG MAINTENANCE" section.
	None of the above issues apply, but engine still won't start.	Contact a qualified service technician for repair.
ENGINE DOES NOT RUN SMOOTHLY	The carburetor is incorrectly set.	Contact a qualified service technician for repair.
	The fuel filter is clogged.	Inspect and clean the fuel filter.
	The fuel tank is almost empty.	Refill the fuel tank with the recommended fuel.
	The spark plug is incorrectly gapped.	Replace with a new spark plug as outlined in the "SPARK PLUG MAINTENANCE" section.
	Incorrect fuel type	Drain and replace with the recommended fuel.
	Fuel mixture is too rich.	Clean the air filter to restore proper air/fuel balance.
	The air filter is clogged.	Inspect and clean the air filter. Replace if necessary.
ENGINE APPARENTLY HAS NO POWER	The air filter is clogged.	Inspect and clean the air filter. Replace if necessary.
	The spark plug is damaged.	Replace with a new spark plug as outlined in the "SPARK PLUG MAINTENANCE" section.
	The carburetor is incorrectly set.	Contact a qualified service technician for repair.

MOWER DOES NOT DRIVE WHEN LAP BARS ARE ENGAGED	The combined amp-hour (Ah) rating of the inserted batteries is less than 12Ah.	To operate the SENIX electric zero-turn mower: A minimum combined capacity of 12Ah is required. For best performance and extended runtime, it is recommended to use SENIX batteries with a total capacity of 48Ah or more.
	The lap bars are not in the open position when starting the mower.	Return the lap bars to the open position and restart the mower.
	The operator is not sitting on the seat.	The mower can only be operated when the operator is properly seated.
	The seat switch is not connected correctly.	If the mower does not start and a seat switch issue is suspected: <ul style="list-style-type: none"> <li>Remove the battery packs from the mower to ensure safety. Disassemble the seat by following the steps in reverse as described in the “INSTALLING THE SEAT” section of this manual.</li> <li>Inspect the seat switch connection to ensure the cable plug is securely connected and free of damage.</li> <li>Reassemble the seat, making sure it is properly secured.</li> <li>Follow the steps in “STARTING THE ELECTRIC ZERO-TURN MOWER” to attempt restarting the mower.</li> </ul>
MOWER STOPS DRIVING	Lap bars require a “reset”.	Return the lap bars to the open position and restart the mower.
	The electric controlling components of the lap bars are failed.	Contact a qualified service technician for repair.
BLADES FAIL TO START	The PTO switch was not pushed down (disengaged) when the mower was last stopped.	Push the PTO switch downward and restart the mower’s blades.
	Motor overload protection activated.	To ensure smooth startup and avoid motor overload: <ul style="list-style-type: none"> <li>Begin mowing with the blade speed set to a lower level (e.g. Level 1 or 2).</li> <li>Wait until the blades are fully rotating and running smoothly.</li> <li>Once stable, increase the blade speed as needed based on the grass height and mowing conditions.</li> </ul>

BLADES STOP WORKING DURING GRASS CUTTING	The mower is overloaded.	<ul style="list-style-type: none"> <li>▪ Raise the deck cutting height to avoid cutting too much grass at once.</li> <li>▪ Slow down the driving speed to allow the blades more time to process thick or dense grass.</li> </ul>
	The mower deck is clogged with grass and debris.	<ul style="list-style-type: none"> <li>▪ Clean the mower deck thoroughly to remove built-up grass clippings, dirt, and debris.</li> <li>▪ Inspect the underside of the deck and ensure there are no obstructions around the blades.</li> </ul>
	The mower has overheated.	<ul style="list-style-type: none"> <li>▪ Raise the deck cutting height to reduce how much grass is being cut at once.</li> <li>▪ Slow down the blade speed to ease strain on the blade motors.</li> </ul>
	The battery pack(s) in the mower are overheated, causing their output to be temporarily reduced.	<ul style="list-style-type: none"> <li>▪ Allow the batteries to cool in a shaded, ventilated area until they return to a safe operating temperature.</li> <li>▪ If possible, remove the batteries from the compartments to speed up the cooling process.</li> </ul>
	The mower struck a foreign object, triggering the motor's self-protection system.	Push the PTO switch downward and restart the mower blades.
The mower is cutting unevenly, with a noticeable height difference between the front and rear of the mowing path.	The blades are dull.	Sharpen or replace the blade as instructed in this manual.
	The blades are bent.	Replace the bent blade following the instructions in section "REPLACING THE BLADES".
	The mower deck is not leveled, resulting in different cutting blade height.	Level the mower deck following the instructions in section "LEVELING THE MOWER DECK".
The actual grass cutting height is not aligned with the height selected.	The nuts on the suspension linkage are loose.	Follow the instructions in section "LEVELING THE MOWER DECK" to make correct front-to-rear adjustment for the mower deck and securely tighten the eight nuts on the suspension linkage (four on each side).



EXCESSIVE VIBRATION	The cutting blades are loose.	Tighten the blade bolt.
	The blades are bent.	Replace the bent blade.
	The mower deck is not leveled.	Level the mower deck following the instructions in section "LEVELING THE MOWER DECK".
	The nuts on the suspension linkage are loose.	Follow the instructions in section "LEVELING THE MOWER DECK" to make correct front-to-rear adjustment for the mower deck and securely tighten the eight nuts on the suspension linkage (four on each side).
	The mower is cutting too much grass at once.	Raise the deck cutting height.
Short run time of the mower with included battery.	Lawn terrain, grass conditions, cutting-height setting, driving speed, blade speed, etc. will greatly affect the running time.	Refer to "Tips to increase the run time" section for instructions.
The mower is not tracking straight.	The tire pressures for the left and right rear wheels are different.	Check and adjust the air pressure in both rear wheel tires, according to the recommendation in section "CHECK THE TIRE PRESSURE" in this manual.
	The driving speed for the left and right rear wheels are different.	Calibrate the lap bars following the instructions in section "CALIBRATE THE LAP BARS".
The mower cannot be charged via charging port.	The plug of the charger is not correctly inserted into the charging port on the mower.	Reconnect the charger plug to see whether the mower can be charged normally.
	There is no power in the wall outlets.	No action is needed. Contact an electrician.
	Charger malfunction.	Contact a qualified service technician for inspection and have charger repaired if needed.
	The charger port on the mower is faulty.	Contact a qualified service technician for repair.
	The battery pack is not attached or attached improperly.	Attach the battery pack properly.
There is no water coming from the wash port when attempting to wash the deck.	The wash-port quick coupler is not properly mounted onto the wash port.	Re-attach the wash-port quick coupler until you hear a clear click after firmly pushing. If it does not work, contact SENIX customer service.

## FAULT CODE & MOWER STATUS INDICATOR REFERENCE

Error Code	Fault name/Description	Solution
1012	Severe undervoltage	Shut down the machine and then restart.
	Undervoltage limit	Shut down the machine and then restart.
1013	Severe overvoltage	Shut down the machine and then restart.
	Overvoltage limit	Shut down the machine and then restart.
1014	Controller over-temperature limit	Use the machine within the normal operating temperature range.
	Controller low-temperature protection	Use the machine within the normal operating temperature range.
	Controller over-temperature protection	Use the machine within the normal operating temperature range.
1015	Motor temperature sensor fault	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
	Motor temperature overheating limit	Use the machine within the normal operating temperature range.
	Motor temperature overheating protection	Use the machine within the normal operating temperature range.
1016	Master and slave selector switch failed	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1021	Throttle fault	Stop and Start the machine as per the manual.
	HPD, SRO timing errors	Stop and Start the machine as per the manual.
1022	Pre-charge failure	Restart the machine
1023	Encoder failure	Shut down the machine and then restart it or refer to the instructions to operate it. If the error still persists, contact us for after-sales service.
	Motor stalling	Shut down the machine and then restart it or refer to the instructions to operate it. If the error still persists, contact us for after-sales service.
1024	Motor phase deficiency	Shut down the machine and then restart it or refer to the instructions to operate it. If the error still persists, contact us for after-sales service.
1025	Software over-current protection	Shut down the machine and then restart it or refer to the instructions to operate it. If the error still persists, contact us for after-sales service.
	Hardware over-current protection	Shut down the machine and then restart it or refer to the instructions to operate it. If the error still persists, contact us for after-sales service.
1026	Current sensor fault	Shut down the machine and then restart it or refer to the instructions to operate it. If the error still persists, contact us for after-sales service.
1027	Overspeed failure	Shut down the machine and then restart it or refer to the instructions to operate it. If the error still persists, contact us for after-sales service.
1028	Master and slave controller communication failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.

1029	The slave controller failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1031	The break control failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
	The motor break fails	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1041	5V output failed	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
	The 12V output failed	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1042	Battery defective	Replace with a new one.
1043	Hardware malfunction	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1044	Master and slave communication failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1045	Battery communication failure	Replace with a new one.
1046	Instrument failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1047	Engine failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1048		
1052	Cutting motor fault	Reactivate the cutting system.
1053	The cutting motor start-stop switch fails	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
1083	EEPROM failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3011	Motor 1 undervoltage limit	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3012	Motor 2 and 3 undervoltage limit	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3013	Motor 1 overvoltage limit	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3014	Motor 2 and 3 overvoltage limit	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3015	Motor 1 is severe undervoltage.	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3016	Motor 2 and 3 is severe undervoltage	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3017	Motor 1 is severe overvoltage	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3018	Motor 2 and 3 is severe overvoltage	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3019	Battery defective	Replace with a new one.

3021	Motor 1 hardware overcurrent	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3022	Motor 2 hardware overcurrent	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3023	Motor 3 hardware overcurrent	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3024	Motor 1 current sensor fault	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3025	Motor 2 current sensor fault	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3026	Motor 3 current sensor fault	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3027	Motor 1 software overcurrent	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3028	Motor 2 software overcurrent	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3029	Motor 3 software overcurrent	Press down the PTO switch to disengage the blade and then pull it up to re-engage.
3031	Motor 1 controller overtemperature limit	Use the machine within the normal operating temperature range
3032	Motor 2 and 3 controller over-temperature limit	Use the machine within the normal operating temperature range
3033	Motor 1 controller low-temperature protection	Use the machine within the normal operating temperature range
3034	Motor 2 and 3 controller low-temperature protection	Use the machine within the normal operating temperature range
3035	Motor 1 overheating limit	Use the machine within the normal operating temperature range
3036	Motor 1 controller over-temperature protection	Use the machine within the normal operating temperature range
3037	Motor 2 and 3 controller over-temperature protection	Use the machine within the normal operating temperature range
3038	Motor 1 overheating protection	Use the machine within the normal operating temperature range
3039	Motor 1 temperature sensor fault	Use the machine within the normal operating temperature range
3041	Timing errors of HPD and SRO	Start and stop the machine as per the instructions
3044	Pre-charge failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3045	Master and subordinate communication failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3046	EEPROM1 Failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3047	EEPROM2 Failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3051	Motor 1 is stalled	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.

3052	Motor 1 start failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3053	Motor 2 start failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3054	Motor 3 start failure	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3055	Motor 1 phase loss	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3056	Motor 2 phase loss	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3057	Motor 3 phase loss	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3058	Motor 1 overspeed fault	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3059	Motor 2 overspeed fault	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3063	Motor 3 overspeed fault	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3064	The break control failed	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3065	The break fails	Shut down the machine and then restart. If the error still persists, please contact us for after-sales service.
3066	Buzzer control failed	Shut down the machine and then restart.
3067	Main contactor control failed	Shut down the machine and then restart.
3068	Main contactor adhesion	Shut down the machine and then restart.
3069	Main contactor failed to engage	Shut down the machine and then restart.
3071	PDO overtime	Shut down the machine and then restart.
3072	5V output failed	Shut down the machine and then restart.
3073	12V output failed	Shut down the machine and then restart.
3074	155V output failed	Shut down the machine and then restart.
3075	Motor 1 low-speed	Shut down the machine and then restart.
3076	Motor 2 low-speed	Shut down the machine and then restart.
3077	Motor 3 low-speed	Shut down the machine and then restart.
3078	The cutting blade switch failed	Shut down the machine and then restart.
3081	PDO overtime	Shut down the machine and then restart.

3082	Seat switch failure	Shut down the machine and then restart.
5001	Fully charged	Stop charging for battery pack is fully charged.
5002	Charging low temperature	Wait until the temperature has come to normal before operating the mower.
5003	Charging high temperature	Wait until the temperature has come to normal before operating the mower.
5004	Charging MOS is overheated	Reinstall the battery pack after the temperature has come to normal.
5005	Abnormally charging PDU (including abnormal PDU temperature)	Restart (if the PDU temperature is abnormal, restart the machine after the temperature has come to normal)
5010	PDU low-voltage warning	Charge the battery pack.
5011	Discharge low temperature warning	It can work normally after the temperature has come to normal.
5012	Discharge high temperature warning	It can work normally after the temperature has come to normal.
5013	Discharge MOS overtemperature warning	Reinstall the battery pack after the its temperature has come to normal.
5017	Discharge PDU is abnormal	Restart the machine.
5999	No CAN signal	Send it to an authorized customer center for repair.
6001	Overcurrent	Turn off the engine. Shut down the machine and then restart.
6002	Output over voltage	Turn off the engine. Shut down the machine and then restart. If the error still persists, contact us for after-sales service.
6003	Low input voltage	Turn off the engine. Shut down the machine. Check fuel level, refill if necessary, and then restart.
6004	Overtemperature	Shut down the machine. Let the engine cool down, and then restart.
6005	Output short circuit	Turn off the engine. Shut down the machine and then restart. If the error still persists, contact us for after-sales service.
6007	Hybrid mode switch failure	Turn off the engine. Shut down the machine and then restart. If the error still persists, contact us for after-sales service.
6008	Engine oil failure	Turn off the engine. Shut down the machine. Check fuel level, refill if necessary, and then restart.
6009	Engine start failure	Turn off the engine. Shut down the machine. Check fuel level, refill if necessary, and then restart. If the error still persists, contact us for after-sales service.
6010	Input voltage is too high	Turn off the engine. Shut down the machine and then restart.
6011	Output voltage backflow	Turn off the engine. Shut down the machine and then restart.
Note: If the machine is still abnormal after being restarted, contact with professional maintenance personnel or contact us for after-sales service.		