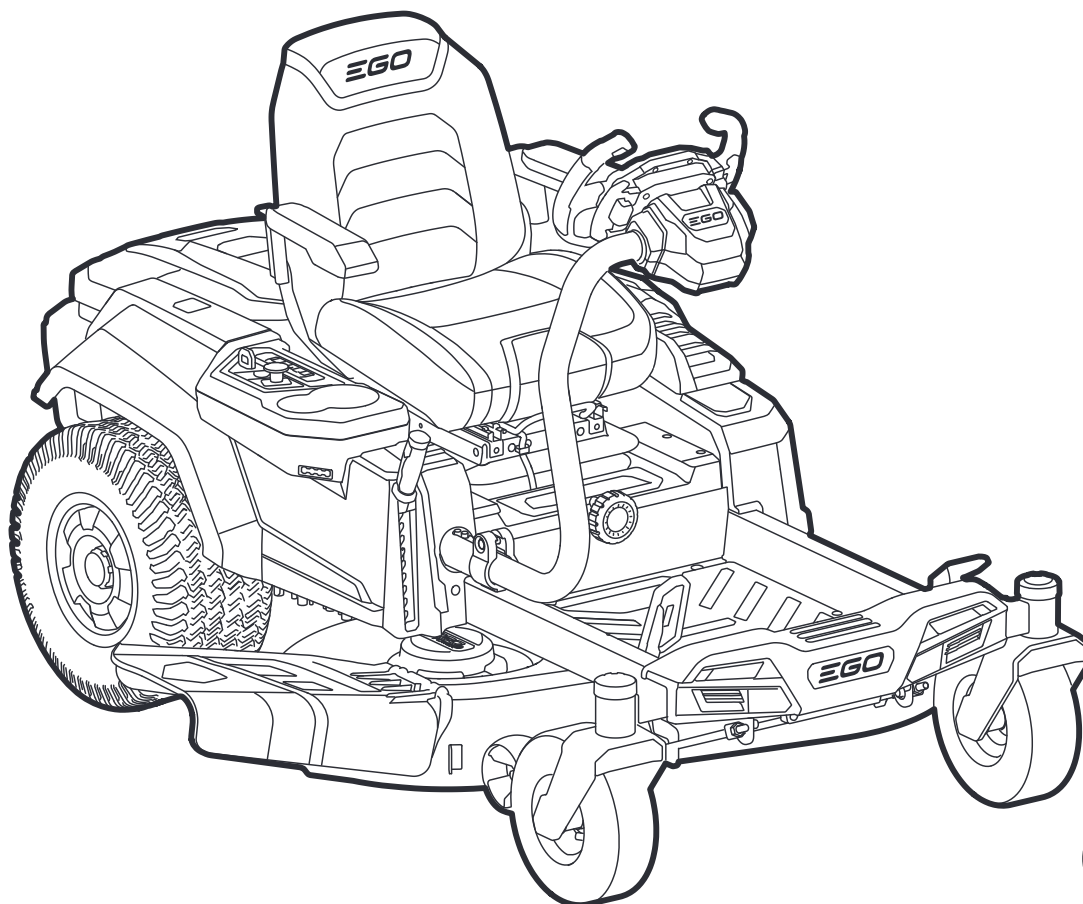


EGO™

POWER⁺ ELECTRIC ZERO TURN MOWER



OPERATOR'S MANUAL
**56-VOLT LITHIUM-ION
ELECTRIC
ZERO TURN MOWER**

Français p. 79

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MODEL NUMBER ZT4200S/ZT4200S-FC



WARNING: To reduce the risk of injury, the user must read and understand the Operator's Manual before using this product. Save these instructions for future reference.



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SAFETY INFORMATION

READ ALL INSTRUCTIONS!



READ & UNDERSTAND OPERATOR'S MANUAL

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - 1) This device may not cause harmful interference.
 - 2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

SAFETY SYMBOLS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

⚠ WARNING: Be sure to read and understand all safety instructions in this Operator's Manual, including all safety alert symbols such as "**DANGER**," "**WARNING**," and "**CAUTION**" before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SYMBOL MEANING

⚠ SAFETY ALERT SYMBOL: Indicates **DANGER**, **WARNING**, or **CAUTION**. May be used in conjunction with other symbols or pictographs.



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

SYMBOLS

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

	Safety Alert	Precautions that involve your safety
	Read & Understand Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear safety goggles or safety glasses with side shields and a full face shield when operating this product.
	Maintain Safety Devices	Do not open or remove safety shields while the product is running.
	WARNING — Keep Hands and Feet Away	To reduce the risk of injury, keep hands and feet away from rotating parts. Do not operate unless discharge cover or grass bag is in its proper place. If damaged, replace immediately.
	DANGER — Keep Bystanders Away	Do not mow when children or others are around.
	Never carry children	Never carry children or anyone, even when the blades are off.
	Look behind while backing.	Always look down and behind you before and when maneuvering in reverse or turning around. Make sure children, bystanders, and pets are clear of the area.
	DANGER — Steep slope hazard	Use extra caution on slopes. Do not mow slopes greater than 15 degrees. Do not use on slopes near open water.
	DANGER — Thrown objects	Remove objects that can be thrown by the blade in any direction. Wear safety glasses.
	DANGER — Go over the edge or into the water	Stay at least two mowing widths (7 ft /2.13 m) away from any ditches, drop-offs, or water to avoid accident going over the edge or into the water.

	Recycle Symbols	This product uses lithium-ion (Li-ion) batteries. Local, state, or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.
IPX4	Ingress Protection Degree	Protection from splashing water
V	Volt	Voltage
	Direct Current	Type or a characteristic of current
mm	Millimeter	Length or size
in.	Inch	Length or size
Ft-lb	Foot-pound	Torque
Nm	Newton meter	Torque
kg	Kilogram	Weight
lbs	Pounds	Weight
°C	Degrees Celsius	Temperature
°F	Degrees Fahrenheit	Temperature
MPH	Miles per hour	Velocity
km/h	Kilometers per hour	Velocity
RPM	Revolutions per minute	Rotational speed
PSI	Pounds per square inch	Intensity of pressure
kPa	Kilopascal	Intensity of pressure

NOTE: See Fig. 1 & 2 for additional LCD symbols and operation instructions.

⚠ WARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician.

SAFE OPERATION PRACTICES FOR RIDE-ON MOWER

⚠ DANGER: 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 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.

PREPARATION BEFORE OPERATING

- Clear the operating area of any objects which could be thrown by or interfere with operation of the machine.
- Keep the area of operation clear of all bystanders, particularly small children. Stop the machine and attachment(s) if anyone enters the area.
- 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.
- Wear appropriate personal protective equipment such as safety glasses, hearing protection, and footwear.

OPERATION

- Only operate the machine in daylight or good artificial light.
- Avoid holes, ruts, bumps, rocks, or other hidden hazards. Uneven terrain could overturn the machine, or cause operator to lose their balance or footing.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- 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.
- Do not leave a running machine unattended. Always park on level ground, disengage the attachment, set parking brake, and stop the motor.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Avoid mowing wet grass. Poor footing could cause a slip and fall accident.
- If situations occur that are not covered in this manual, use care and good judgment. Contact EGO Customer Service for assistance.

- Use only with the battery packs and chargers listed below:

BATTERY PACK	CHARGER (Charge battery packs separately)	CHARGER (Charge via charging port)
BA1400, BA1400-FC, BA2800, BA2800-FC, BA4200, BA4200-FC, BA1400T, BA1400T-FC, BA2240T, BA2240T-FC, BA2242T, BA2242T-FC, BA2800T, BA2800T-FC, BA4200T, BA4200T-FC, BA5600T, BA5600T-FC, BA6720T, BA6720T-FC	CH2100, CH2100-FC, CH3200, CH3200-FC, CH5500, CH5500-FC, CH7000, CH7000-FC, CH2800D, CH2800D-FC	CHV1600/CHV1600-FC

NOTE: In order to start this mower, EGO batteries totaling 15Ah (2 x BA4200/BA4200T) or more are required. For best performance, we recommend use of EGO batteries that total 30Ah or more.

CHILDREN SPECIFIC

- 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.
- Keep children out of the operating area and under the watchful care of a responsible adult other than the operator.
- 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

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

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

HAULING

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

TRANSPORT

- The machine is heavy and can cause serious crushing injuries. Be extra cautious when it is loaded on or unloaded from a vehicle or trailer.
- Use full width ramps for loading machine into a trailer or truck.
- Use an approved trailer to transport the machine. Engage the electric park brake by releasing the accelerator pedal and set the parking-brake pedal at the braking position. Fasten the machine down with approved devices such as bands, chains or straps.
- Both front and rear tie down straps must be used and directed down and out from the machine.

⚠ WARNING: Use extreme caution when loading the machine into a truck or trailer using ramps. There is the possibility of serious injury or death if the machine falls off the ramps.

⚠ WARNING: The parking-brake is not sufficient to lock the machine in place during transport. Ensure that the machine is well fastened to the transport vehicle. Always reverse the machine onto the transport vehicle to avoid tipping it over.

- Do not operate this machine on public roadways.
- Check and abide by local traffic regulations before transporting the machine on roads.
- Do not tow this machine, it may cause damage to the drive system.
- Load the unit onto truck or trailer by driving up ramps of suitable strength using a slow speed. Do not lift! The machine is not intended to be lifted by hand.
- When loading or unloading this machine, do not use more than the maximum recommended operation angle of 15 degrees.

TOWING

- **Do not tow a cart that exceeds 250 lbs. (113 kg) total rolling weight and never exceed 50 lbs. (22 kg) tongue weight.** The weight of the cart and other specifications are included in the owner's manual supplied with your cart.
- **Attach towed cart only to the hitch.** Risk of personal injury or property damage.
- **Never allow children or other persons in or on towed cart.** Risk of personal injury.
- **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.
- **Always use extra caution when towing with your zero-turn mower.** Make wide turns to avoid jack-knifing. Use care when reversing.
- **Drive at slow speed and allow extra distance to stop.**
- **Do not tow near ditches, canals, and other hazards.** There is a risk of loss of traction or control.
- **Follow all the warnings and instructions provided by the cart manufacturer.** Failure to follow all instructions may result in personal injury or property damage.
- Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.

SERVICE

⚠ WARNING: Grass bag components, the side discharge cover, mulching insert are subject to wear and damage, which could expose moving parts or allow objects to be thrown and could increase the risk of injury. For safety protection, frequently check all components and replace damaged components immediately with identical replacement parts, listed in this manual.

- Keep machine in good working order. Replace worn or damaged parts. Periodic checking of the motor and brakes.
- Use caution when servicing blades. Wrap the blade(s) or wear gloves. Replace damaged blades. Do not repair or alter blade(s).
- Always stop the motor and remove or disconnect the battery pack before servicing, cleaning, or removing material from the ride-on mower.
- After striking a foreign object, stop the motor, remove the battery pack, allow the blade to stop rotating, and thoroughly inspect the ride-on mower for any damage. Repair the damage before operating the ride-on mower.

- Have your ride-on lawn mower serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the ride-on lawn mower is maintained.
- Follow instructions for changing accessories.
- Keep the ride-on mower free from accumulation of grease, dirt, and other possibly combustible materials.
- Keep all nuts, bolts, and screws tight to be sure the ride-on mower is in safe working condition.
- Never remove or tamper with safety devices. Regularly check their proper operation. Never do anything to interfere with the intended function of a safety device or to reduce the protection provided by the safety device.
- Maintain or replace safety and instruction labels, as necessary.
- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Do not charge ride-on mower in rain, or in wet locations.
- Do not use battery-operated ride-on mower in rain.
- Do not wash the ride-on mower with a hose; avoid getting water in the motor and electrical connections.
- Store idle ride-on mower indoors – When not in use, ride-on mower should be stored in an indoor dry and locked-up place – out of reach of children.
- Turn off and remove key before servicing, cleaning, or removing material from the ride-on mower.
- **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use them to instruct others who may use this product. If you lend this product to someone else, also lend these instructions to them to prevent misuse of the product and possibly injury.



INTRODUCTION


Congratulations on your selection of a new generation of EGO 56V Lithium-Ion Electric Zero Turn Mower. It has been designed, engineered, and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact EGO customer service center 1-877-346-9876 (1-877-EGO-ZTRM).

This manual contains important information on to the safe assembly, operation, and maintenance of your product. Read it carefully before using the product. Keep this manual handy so you can refer to it at any time.

SERIAL NUMBER _____	DATE OF PURCHASE _____
THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A LABEL ATTACHED ON THE SIDE OF THE FOOT-REST AREA. YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE. SAVE YOUR SALES RECEIPT.	

SPECIFICATIONS

Voltage	56 V 	
Deck Size	42 in (1067 mm)	
Wheel Size	Front	11 x 4 – 5 in
	Rear	18 x 9.5 – 8 in
Cold Tire Pressure	Front	32 PSI (222.1 kPa)
	Rear	16.8 PSI (115.8 kPa)
Turning Radius	0	
Blade Speed (RPM)	up to 3200	
Maximum Driving Speed	Forward	up to 8 MPH (12.8 km/h)
	Reverse	up to 3.5 MPH (5.6 km/h)
Cutting-Height Adjustment (10 positions)	1.5 – 4.5 in (38.1 – 114.3 mm)	
Maximum Towing Weight	250 lbs (113 kg)	
Recommended Charging Temperature	41°F – 104°F (5°C – 40°C)	
Recommended Operating Temperature	32°F – 104°F (0°C – 40°C)	
Recommended Storage Temperature	-4°F – 158°F (-20°C – 70°C)	
Weight (without battery pack)	430 lbs (195 kg)	

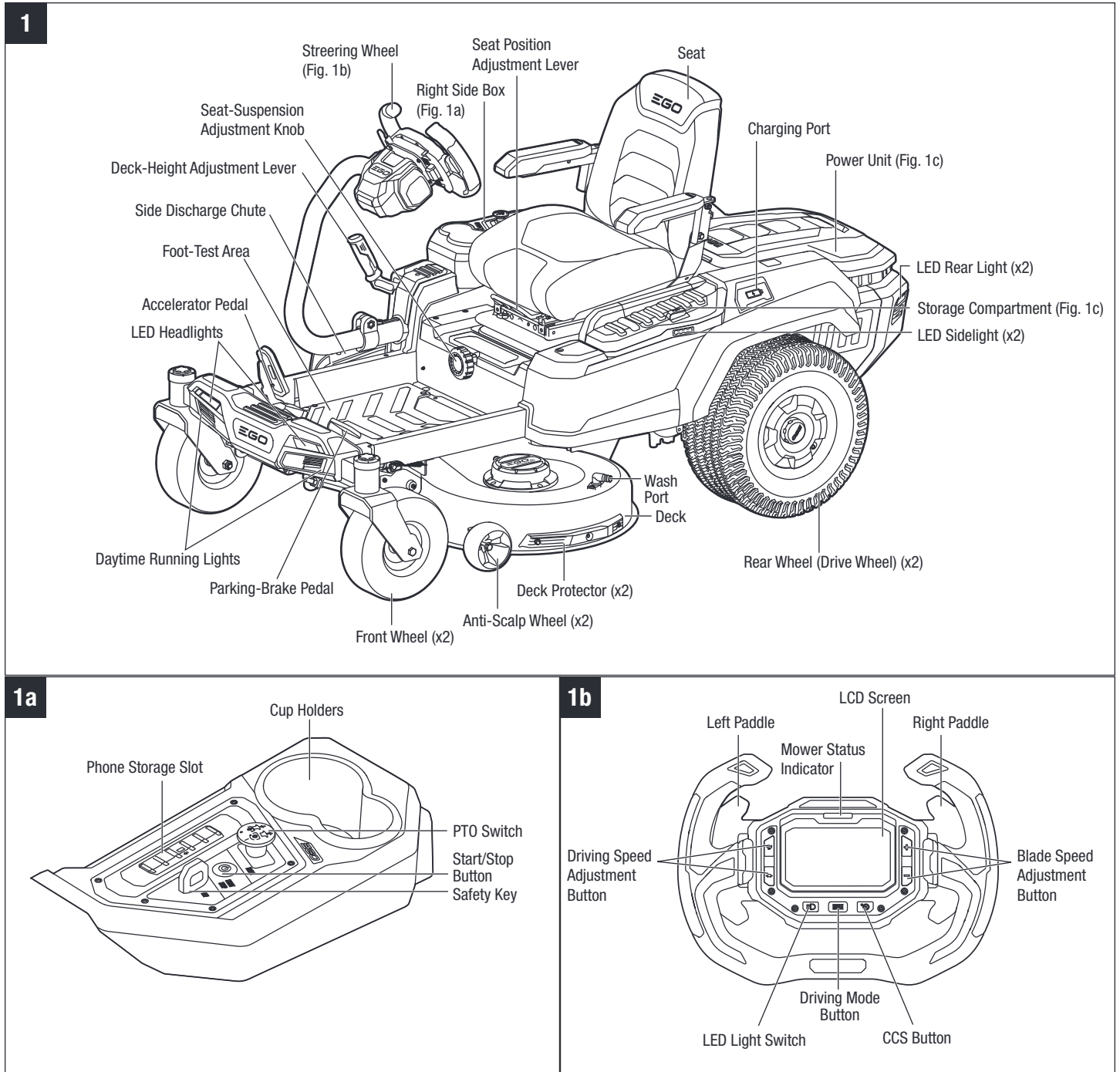
RECOMMENDED ACCESSORIES

⚠ WARNING: Use only identical replacement parts listed below. Use of parts that do not meet the original equipment specifications may lead to improper performance and compromised safety.

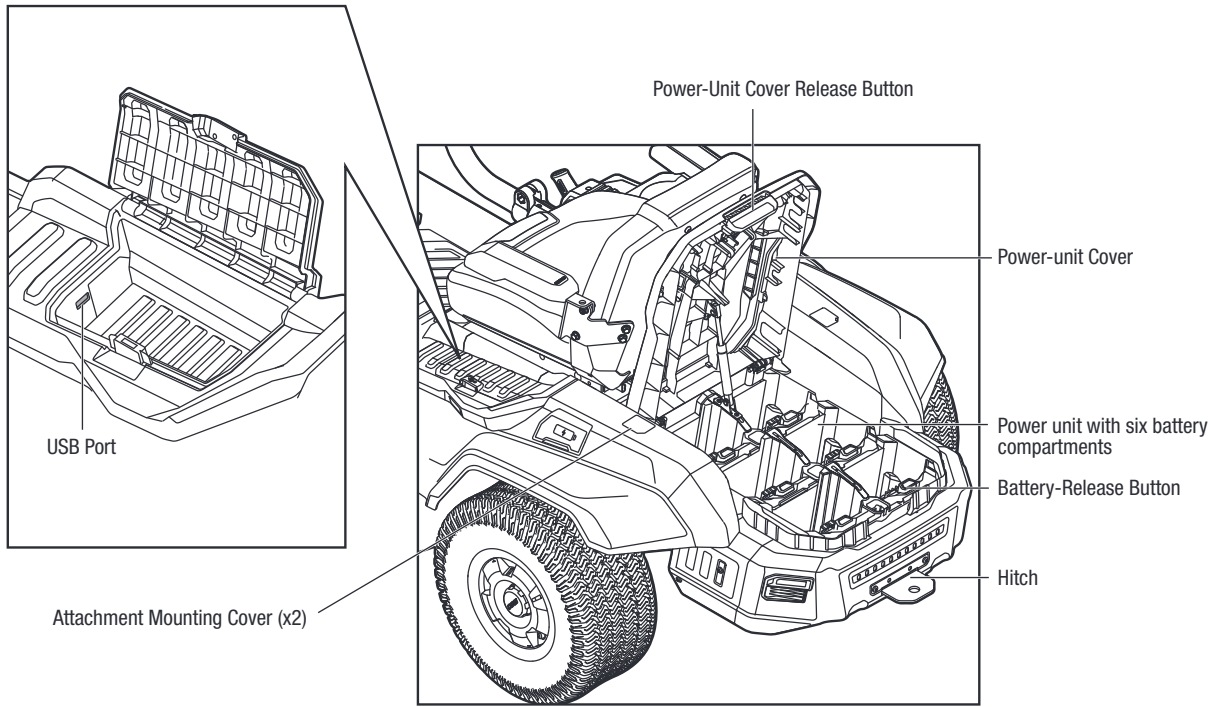
PART NAME	MODEL NUMBER
Blade Set	AB4200D
Bagging Blade Set	AB4201D
Mulching Plug	AMP4200
Bagger Kit	ABK4200
Rear Bumper	AMB1000
Cargo Box	AMG1000
Sun Shade	AMS1000

DESCRIPTION

KNOW YOUR ELECTRIC ZERO TURN MOWER (Fig. 1)



1c



⚠ WARNING: The safe use of this product requires an understanding of the information on the product and in this instruction 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.

Safety Key

The safety key must be inserted before the start/stop button is pressed to start the mower.

Start/Stop Button

After the safety key is inserted, press the start/stop button for 3 seconds to start the mower.

- The LCD screen will display the “fuel gauge” when pressed briefly.
- The LCD screen will turn off after the start/stop button has been pressed again for 3 seconds.

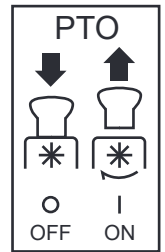
PTO Switch (Pull-to-Operate Switch)

Turns on the blades (blade motors).

NOTICE: It is not recommended to turn on the blade motors when the blades are under heavy load. Raise the deck and restart the blade motors.

Steering Wheel

Controls the mower’s driving direction.



Left Paddle/Right Paddle

The paddles have two functions:

- Before driving the mower, pull both left paddle and right paddle simultaneously towards the operator and then release them, the mower status indicator will shine green, which means the mower is ready for driving.
- When the mower is ready for driving or is already being driven at any speed, pull either left or right paddle, or both paddles towards the operator and do not release them to drive the mower in reverse.

Accelerator Pedal

Starts/Stops driving the mower and controls the driving speed of the mower.

Parking-Brake Pedal

Locks the mower in the parking position.

NOTICE: Never depress the parking-brake pedal to slow down the speed. Once the parking-brake pedal is depressed enough but not to the full parking position, the mower will stop moving. On a flat surface but if this happens on a slope, the mower may slide down the slope.

Seat Position Adjustment Lever

Use this lever to move the high-cushion seat back and forth to the desired position.

Seat-Suspension Adjustment Knob

Use the seat-suspension adjustment knob to adjust the comfort depending on the operator’s weight and the bumpiness of the yard.

Deck-Height Adjustment Lever

The deck-height adjustment lever raises and lowers the cutting deck.

Anti-Scalp Wheel

Prevents the deck from contacting the ground and scalping the lawn when passing over a high spot.

Side-Discharge Chute

Allows the blade to discharge the grass clippings from the side discharge opening. The side-discharge chute is factory installed.

Hitch

For towing carts or other wheeled attachments. Refer to “**TOWING**” chapter earlier in this manual.

Daytime Running Lights

Light up to show cool effects. Could be customized using EGO Power+ app.

LED Headlights/Sidelights/Rear Lights

Provide light for mowing in low light conditions and to allow the mower to be seen.

NOTE: During reverse operation, the rear lights will automatically flash as an alert.

LED Light Switch

Controls the headlights/sidelights/rear lights.

Storage Compartment

The storage compartment features one USB port and ample storage space for a USB device being charged and/or for accessories, such as the attachment-mounting covers. Always close the storage compartment cover when not in use to prevent debris from becoming trapped in the USB port.

Phone Storage Slot

Designed for convenient storage of a mobile phone.

Attachment Mounting Covers

Protect the attachment-mounting sites when they are not in use.

Charging Port

When used with CHV1600/CHV1600-FC charger (available separately), allows the direct charging of the batteries mounted in the battery compartment.

USB Port

The USB port provides charging power of 5 Volts DC at up a combined draw of 1.5 Amperes for your cell phone, MP3 player, or other USB devices. Consult the owner's manual for your device for specific charging requirements.

NOTICE:

- Attempting to charge devices whose combined draw exceeds 1.5 amps could damage the USB port and/or the mower.
- The USB port is powered only when the mower is not in charging mode.

SMART FEATURES

Driving-Mode Button

This button allows the operator to activate one of the three modes: CONTROL, STANDARD, or SPORT. The modes determine the sensitivity of the mower reaction to the accelerator pedal and steering wheel movement. For more information refer to section “**CUSTOMIZING YOUR MOWING AND DRIVING EXPERIENCE**”.

Driving Speed Adjustment Button

Allows the operator to select a comfortable driving speed. For more information refer to section “**CUSTOMIZING YOUR MOWING AND DRIVING EXPERIENCE**”.

Blade-Speed Adjustment Button

Allows the user to customize the blade speed, depending on grass conditions. For more information refer to section “**CUSTOMIZING YOUR MOWING AND DRIVING EXPERIENCE**”.

CCS Button

Has multiple functions:

- To enter and exit CCS (Cruise Control System) while driving forward.
- To calibrate the steering wheel (see section “**CALIBRATE THE STEERING WHEEL**” in this manual).
- To reset the mower to initial factory setting (see section “**RESETTING THE MOWER TO INITIAL FACTORY SETTING**” in this manual).

Mower Status Indicator

- If the mower status indicator shows green, the mower is ready to be driven.
- If the status indicator flashes red during driving, the mower is overloaded, or otherwise in an undesirable condition.
- If the mower status indicator is off, the mower is not ready to be driven. Please see the section “**STARTING THE ELECTRIC ZERO TURN MOWER**” in this manual to start the mower correctly.
- If the mower status indicator flashes red (and the icon of each occupied battery compartment, fuel gauge, and low-power indicator will blink every second), the battery charge is too low and the mower will go into Limp-Home mode.
- When updating the firmware or resetting the mower to initial factory setting, the mower status indicator flashes orange. Please see the sections “**TO UPDATE THE FIRMWARE**” and “**RESETTING THE MOWER TO INITIAL FACTORY SETTING**”.

NOTE: The mower status indicator may indicate a particular fault, refer to the section “**FAULT CODE & MOWER STATUS INDICATOR REFERENCE**” for more information.

PEAK POWER™

This technology combines the power of up to six EGO 56V ARC Lithium™ batteries to deliver the power and performance of a gas mower.

EGO Power+ App and Firmware

Unlike the gas-powered mowers, your EGO zero-turn mower uses a state-of-the-art on-board computer to monitor every element of the machine and make sure that the mower is running smoothly. EGO engineers periodically release updates to mower's Firmware – an operating system running the on-board computer. In a lot of cases the performance of a certain element of the mower can be improved by changing the code in the firmware without replacing the physical parts or having to visit a service station. For information on how to pair your zero-turn mower with your smartphone or tablet, please refer to chapter “**USING EGO POWER+ APP WITH YOUR MOWER**”.

Slope Assist

This feature helps the operator to safely start and drive the mower on a slope.

Limp-Home Mode

When battery charge becomes critically low, the mower will go into Limp-Home mode to preserve enough power to travel back to the charging area.

- The blades switch into low rotation speed, which could only cut very little amount of grass. Upon encountering tall and dense grass, the blades will stop rotating. The audio indicator will sound (beep) intermittently.
- The mower status indicator will flash red every second, both the low-power indicator and the battery graphics on the fuel gauge will flash.

The operator should:

- Push the PTO switch downward to turn off the blade motors. The audio indicator will stop sounding when the blade motors stop
- Stop working and get to the charging area as soon as possible. The maximum distance the mower can travel is 0.6 mile (0.96 km).

When the battery is nearly depleted, the icon of each occupied battery compartment and low-power indicator will blink every half a second. The mower will stop working immediately. The operator will have to transport the mower to the charging area for charging.

NOTICE: If manual pushing is needed, be sure that the batteries are disconnected from the mower and the parking-brake pedal is released from the braking position.

Safety Start Interlock System

The mower is equipped with a safety start interlock system consisting of the safety key, start/stop button, the parking-brake pedal switch, seat switch, and charging-port switch.

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

⚠ WARNING: Check the mower safety start interlock system prior to operation. This system is an important mower safety feature. It should be repaired immediately if it malfunctions: call EGO customer service center immediately.

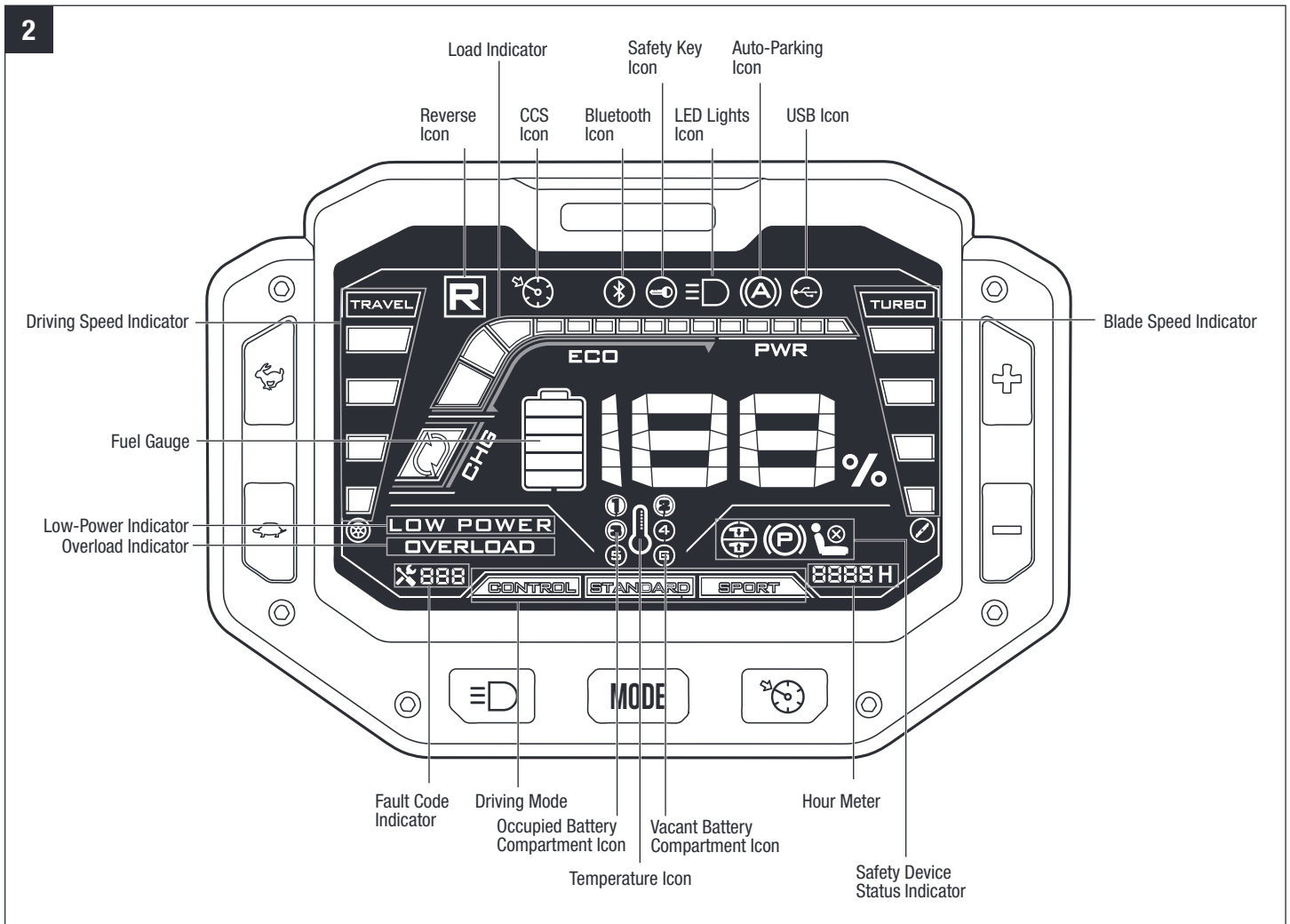
⚠ WARNING: The safety start interlock system must not be disconnected or bypassed. Doing so could cause the mower to operate unexpectedly, resulting in personal injury.

Audio Indicator (Beeps)

The EGO electric zero turn mower is equipped with an audio indicator that will beep in certain situations. It will sound when:

- The mower starts normally and the LED screen is illuminated with all icons and indicators. The audio indicator will sound once.
- The mower is turned off normally. The beep will sound once.
- When the available battery charge is critically low, the mower will go into Limp-Home mode, the beeps will continue to sound intermittently until the PTO switch is pressed downward.
- When the mower is overloaded or overheated, the beep will sound once.
- When one fault code is displayed on the LCD screen, the beep will sound once. When several fault codes are displayed on the LCD screen, the beep will sound the number times corresponding to the number of fault codes.
- If the mower stops driving on a slope and the operator is off the seat without setting the parking-brake pedal at the braking position, the beeps will sound continuously to remind the operator to set the parking brake for safety.
- When entering or exiting the CCS (Cruise Control System), the beep will sound twice.

KNOW THE ICONS AND INDICATORS ON THE LCD SCREEN (Fig.2)



Reverse Icon

Illuminates when either left or right, or both paddles are pulled towards the operator for driving in reverse.

CCS (Cruise Control System) Icon

Illuminates when the mower continues forward at a set speed without needing to step on the accelerator pedal.

Bluetooth Icon

Illuminates when the mower is connected to a mobile device via Bluetooth.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, inc. and any use of such marks by EGO is under license.

Safety Key Icon

When the safety key is correctly inserted and the start/stop button is pressed to start the mower, the safety key icon will illuminate, otherwise this icon will keep flashing as a reminder for the operator to insert the safety key.

LED Lights Icon

Illuminates when the LED headlights/sidelights/rear lights have been turned on.

Auto-Parking Icon

The auto-parking icon will flash when the mower stops driving on a slope, the accelerator pedal is released, and the operator is off the seat without setting the parking-brake pedal at the braking position. The mower will automatically stop on the slope using the battery charge to power the electric brake, meanwhile the audio indicator will emit intermittent beeps.

The auto-parking icon will turn off and the audio indicator will no longer sound as soon as the parking-brake pedal is set in braking position.

⚠ WARNING: When the battery power is depleted, the mower can slide down the slope, which may cause serious mower damage or personal injury!

USB Icon

Illuminates to indicate that a USB device can be connected after the mower is started correctly.

Load Indicator

Indicates the current load of the mower. When the load is in the ECO range, the mower is under normal load. When the load is in the PWR range, the mower is under heavy load. When in the CHG range, the mower is in the energy regeneration mode, such as when braking or driving downhill.

Fuel Gauge

Indicates the average charge capacity of the inserted batteries.

Low-Power Indicator

- When the available battery charge is critically low, the mower will go into Limp-Home mode. The low-power indicator will flash every second. The operator should stop working and drive to the battery charging area as soon as possible.
- When the battery is nearly depleted, the low-power indicator will flash every half a second.

Fault Code Indicator

The on-board computer system will take action to protect the operator and the machine when it detects an issue. When it acts to turn off the machine or a component, it will indicate that a fault has occurred, and that fault code will be shown on the LCD screen. Please see “**FAULT CODE & MOWER STATUS INDICATOR REFERENCE**” section in this manual for reference.

Overload Indicator

When the mower is overloaded, the overload indicator will flash every second. Meanwhile, the mower status indicator above the LCD screen will flash RED every second. The audio indicator will sound once.

It is recommended that the operator should raise the deck cutting height to reduce the load of the mower when the overload indicator flashes.

Temperature Icon

- When the battery is overheated, the temperature icon will flash every second and the battery icon representing the overheated battery will blink.
- When the mower is outside the recommended temperature (overheated or too cold), the temperature icon will flash every second.
 - When the mower is overheated, it is recommended that the operator should reduce the load of the mower by raising the deck cutting height or slowing the blade/driving speed to allow the battery pack or the mower to return to normal temperature range.
 - When the mower is too cold, please do not make repeated attempts to start the mower which may damage the machine. Always store the mower and battery in warm environment. Restart the mower when it is warmed up.

Battery Icon

- Illuminates when the battery is inserted into the corresponding battery compartment.
- When the combined Ah of the inserted batteries is less than 15Ah, the battery icons of all the vacant battery compartments will flash as a reminder for the operator to insert more batteries into the vacant battery compartment(s).




In order to start this mower, EGO batteries totaling 15Ah (2 x BA4200/BA4200T) or more are required. For best performance, we recommend use of EGO batteries that total 30Ah or more.

- When over-current occurs for a certain battery during battery discharging, the corresponding battery icon will flash. The mower can continue working if the combined battery Ah rating, over-current battery excluded, is equal to or more than 15Ah. Once the over-current battery returns to normal, it will join in powering the mower immediately and the icon will disappear.
- When the available battery charge is too low, the mower will go into Limp-Home mode. The fuel gauge and the battery icons corresponding to all of the correctly inserted batteries on the LCD screen will flash to instruct the operator to return to the charging area as soon as possible. When the mower is in Limp-Home Mode, the blades are automatically switched into low rotation speed.
- When the battery is nearly depleted, the battery icons of all the correctly inserted batteries will flash.

Hour Meter

- Shows the total driving time of the mower, in hours. Use the hour meter to determine when the mower has reached the recommended service intervals.
- Hour meter cannot be reset.

Safety-Device Status Indicator

-  flashes to instruct the operator to reset the PTO switch.
-  illuminates when the parking brake is set.
-  illuminates when the operator is off the seat.

ASSEMBLY

⚠ WARNING: To prevent accidental starting that could cause serious personal injury, always remove the battery pack(s) 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 create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to serious injury.

A. UNPACKING

⚠ WARNING: To reduce the risk of injury or mower damage, do not use a knife to cut the nylon straps. Use scissors or side cutters.

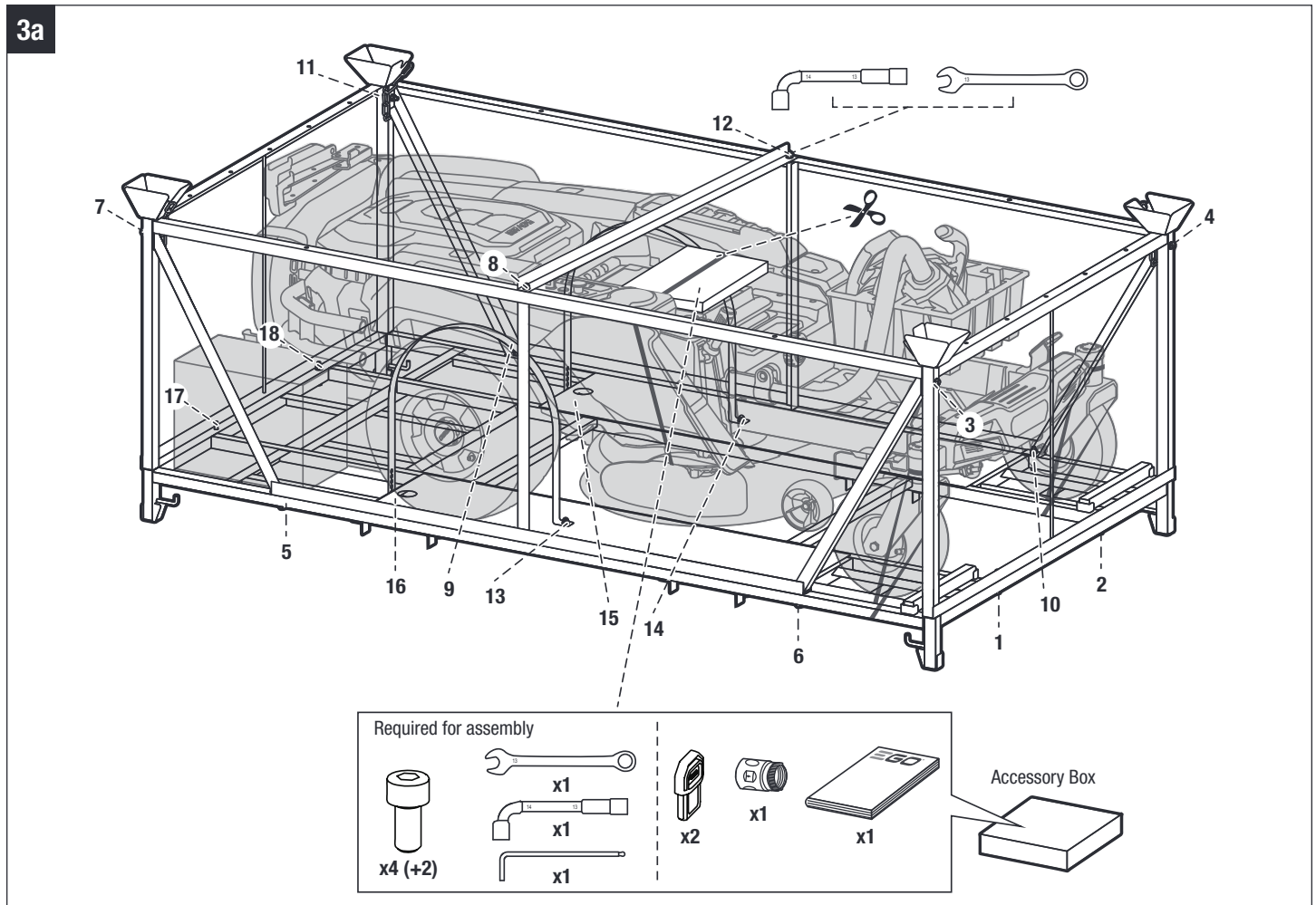
⚠ WARNING: To reduce the risk of damage, remove watches or other fragile and valuable items from your wrists. There's a risk of accidental contact with steel frame elements.

Required tools:

- Scissors or side cutters (not supplied)
- one 13mm open-end wrench (supplied)
- one socket wrench with 13mm end (supplied)

1. Remove the plastic cover from the mower.
2. Cut the nylon straps and remove the accessory box located in the center seat area of the mower and remove the two wrenches inside (Fig. 3a).
3. Use the the 13mm open-end wrench and the 13mm end of the socket wrench to remove all 18 bolts that hold together the frame in the numerical order shown in Fig. 3a.

NOTE: To simplify and speed up the process, use an impact wrench with a 1/2 in (13 mm) socket (not supplied).



4. Cut the nylon straps securing the battery/charger boxes, seat, and mower front wheels (Fig. 3b).
5. Remove the seat assembly from the mower first, and then remove the battery and charger boxes from the bottom of the frame (Fig. 3b).
6. Remove and set aside all accessible packaging and wrap material. Do not discard the packing material until you have carefully inspected the product.
NOTICE: Do not remove the steering wheel protector that protects the steering wheel until the steering wheel is properly installed. Vibration during the removal of the mower may cause damage to the steering wheel.
7. Remove both wheel chocks from in front of the wheels. You may need to use the supplied wrench to pry off the chocks (Fig. 3b).
8. If a ramp is available, position a full-width ramp against the bottom frame, close to the front wheels. Do not exceed the maximum recommend operating angle of 15°. Alternatively, two pieces of 2x4 lumber help reduce the “drop” from the bottom frame to the ground.
9. Press the parking-brake pedal to release it from the braking position. A significant effort is required to release the parking-brake pedal by hand. Push hard!

⚠ CAUTION: Heavy object. Team push required. At least two persons are required to push this mower off of the steel frame.

10. Grasp the rear corners and the areas around storage compartment / cup holder of the mower simultaneously on both sides and slowly push the mower off of the steel frame in the forward direction (Fig. 3b).

NOTICE: ONLY PUSH THE MOWER FORWARD. Pulling the mower backward from the steel frame may cause damage to the mower’s cutting deck. Always remove the mower from the frame in the forward direction!

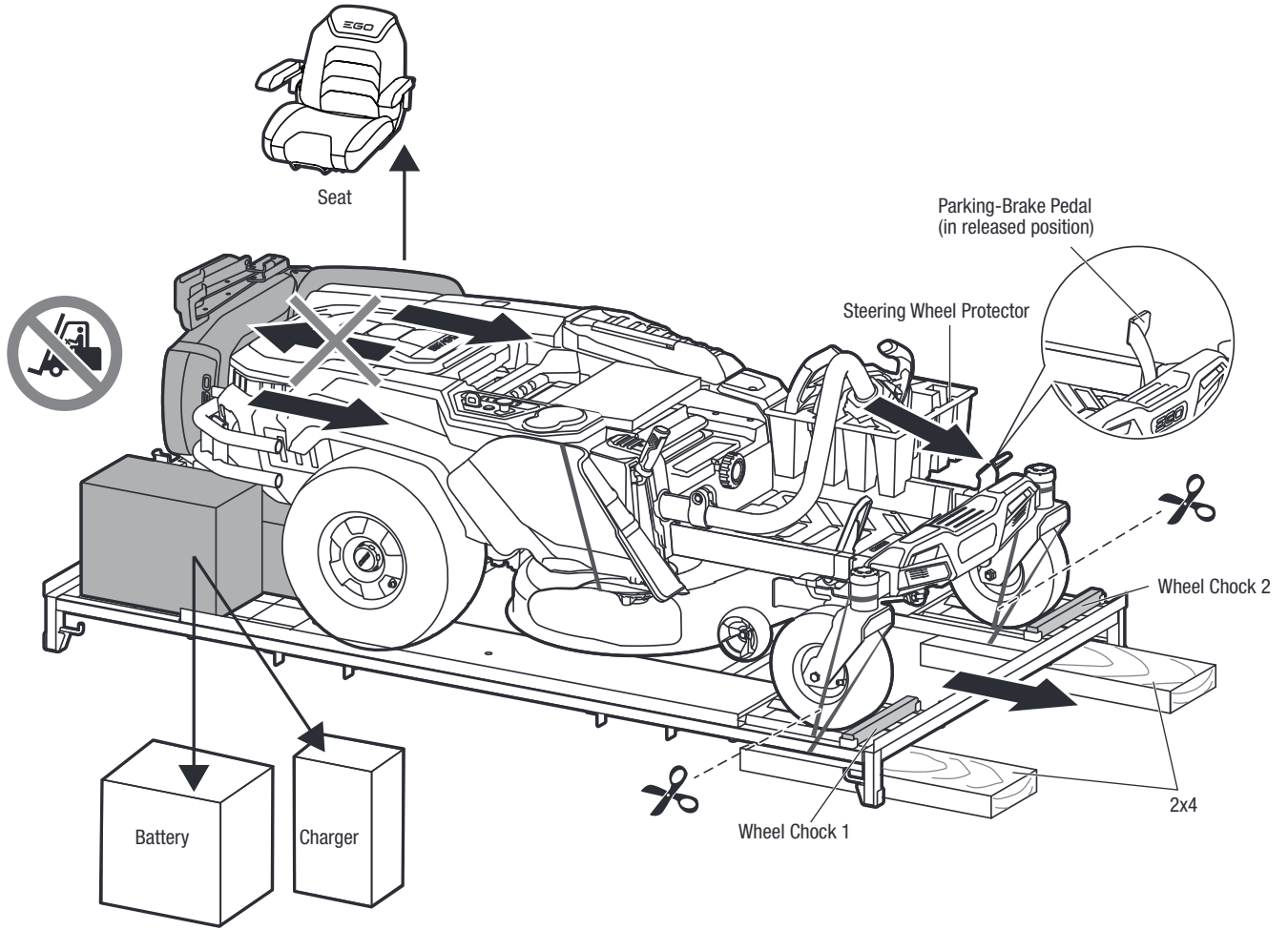
NOTICE: The mower must be transported on the bottom frame at all times! Fork lift should never come in direct contact with the mower! Doing so may cause damage.

11. Cut the nylon strap securing the side discharge chute once the mower is on the ground.

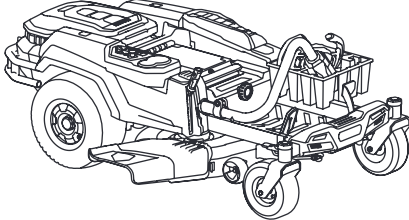

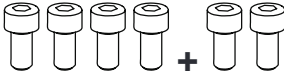






⚠ WARNING: Do not use this product if any parts are already assembled to your product when you unpack it. Parts on the packing list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

- Inspect the product carefully to make sure that no breakage or damage occurred during shipping.
- If any parts are damaged or missing, please contact EGO after sale service.

3b



PACKING LIST

PART NAME		FIGURE	QUANTITY
Electric Zero Turn Mower with rear bumper assembly			1
Seat Assembly	Seat		1
	Socket-Head Screws		4+2 (spare)
	6 mm Allen Key		1
13 mm Open-end wrench			1
Socket Wrench			1
Safety Key			2
Wash-port Quick Coupler			1
Operator's Manual			1

B. INSTALLING THE SEAT (FIG. 4)

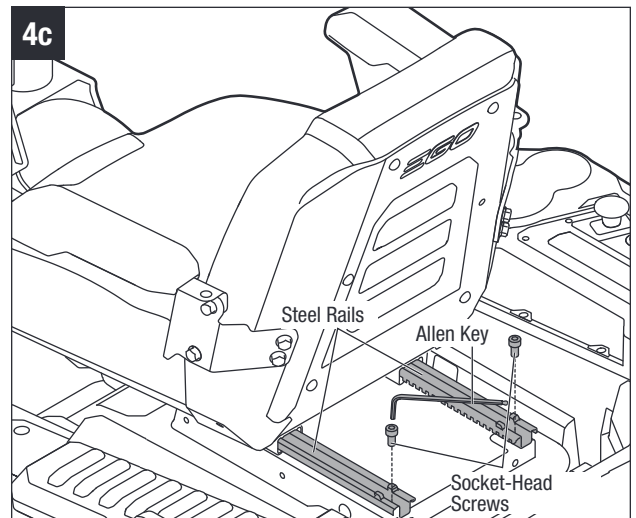
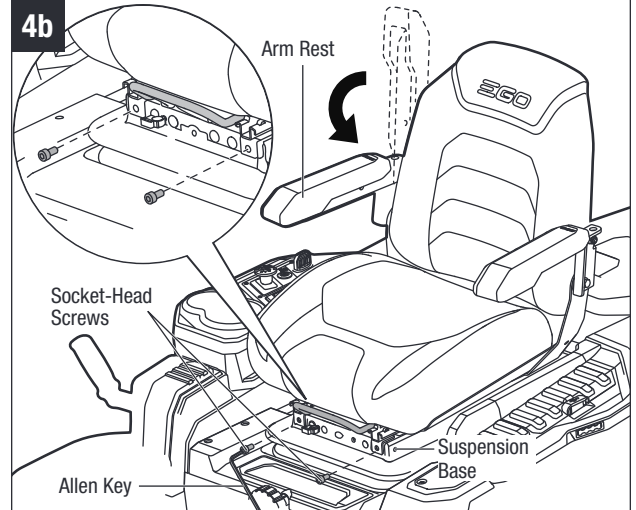
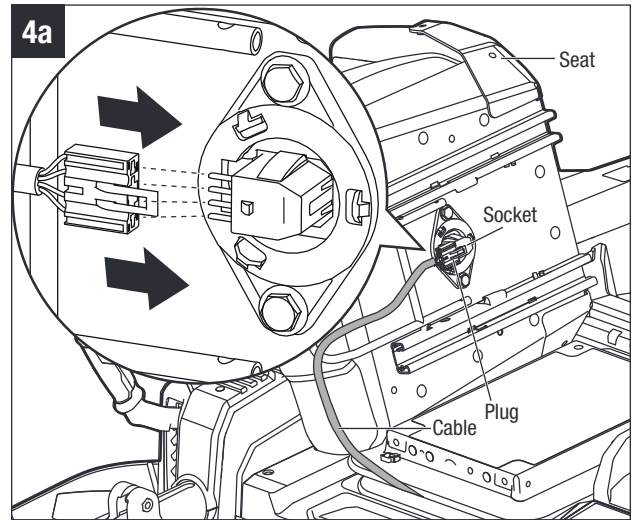
The mower incorporates a safety interlock system that will stop the drive motors and blade motors when the operator is unseated for any reason while the mower is operating. This is a safety feature designed to prevent runaway or accidental entanglement.

Required Tool (supplied): 6 mm Allen key

1. Remove the four socket-head screws from the accessory box and set them aside.
2. Lay the seat on its side and insert the cable plug into the socket on the bottom of the seat (Fig. 4a). This connects the safety interlock system.
3. Rotate the two arm rests to the horizontal positions. Place the seat closely against the front of the suspension base. Align the two mounting holes in the seat with the holes in suspension base and use the supplied Allen key to secure the seat to the suspension base with the two supplied socket-head screws (Fig. 4b).
4. Lift the seat position adjustment lever slightly and pull the seat forward to expose the two backside mounting holes in the steel rails of the seat assembly (Fig. 4b).
5. Use the supplied Allen key to thoroughly tighten the steel rails onto the suspension base with the remaining two socket head screws (Fig. 4c).

⚠ WARNING: When finishing tightening the two backside screws, please check that there is no gap between the front part of the steel rails and the suspension base.

6. Place the flexible cable into the hook as indicated by the position label on the cable (Fig. 4d).



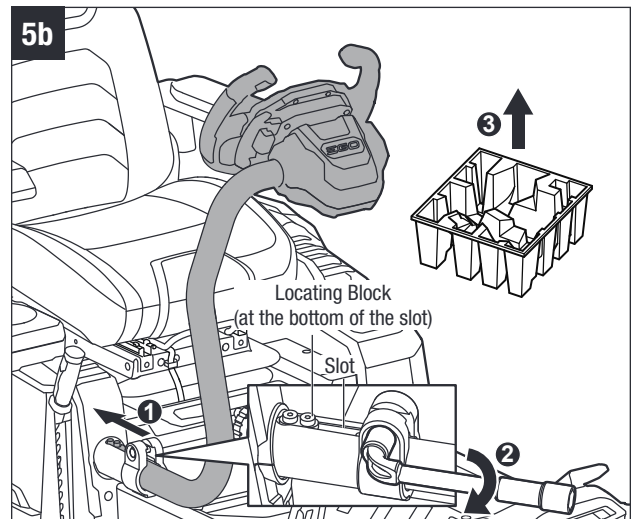
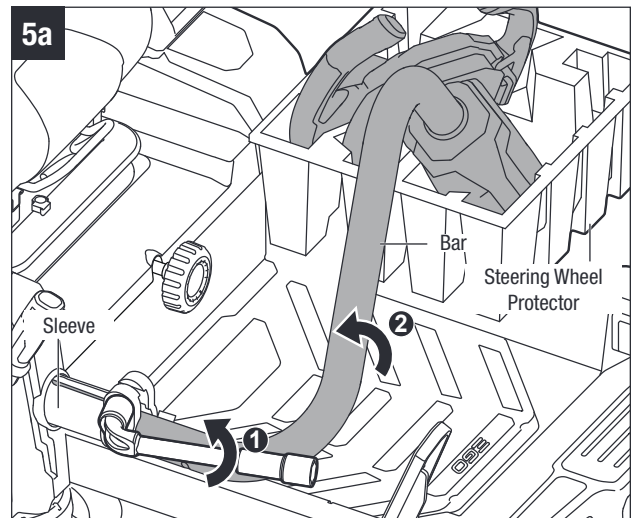
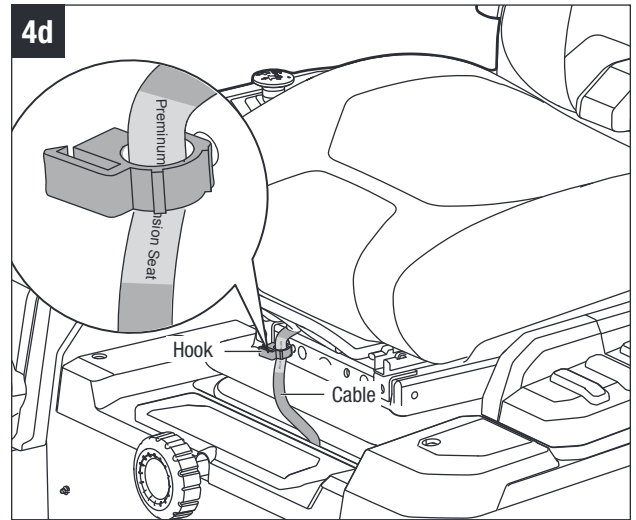
C. INSTALLING THE STEERING WHEEL (FIG. 5)

Required Tool (supplied): socket wrench with the 14 mm end

1. Use the supplied wrench to loosen but not remove the locking bolt (Fig. 5a).
2. Pivot the bar of the steering wheel to lift the steering wheel up.
3. For your easy operation, once the locating block of the bar is aligned with the slot in the sleeve, it is recommended to push the bar into the sleeve until the locating block is at the bottom of the slot (Fig. 5b).

NOTE: The position of the steering wheel could also be adjusted if necessary. Refer to the section “**ADJUSTING THE STEERING WHEEL**” for more instructions.

4. Use the supplied wrench to secure the steering wheel with the locking bolt. The recommended torque for the locking bolt is 36-41 ft-lb (50-55 Nm).
5. Remove and set aside the steering wheel protector.

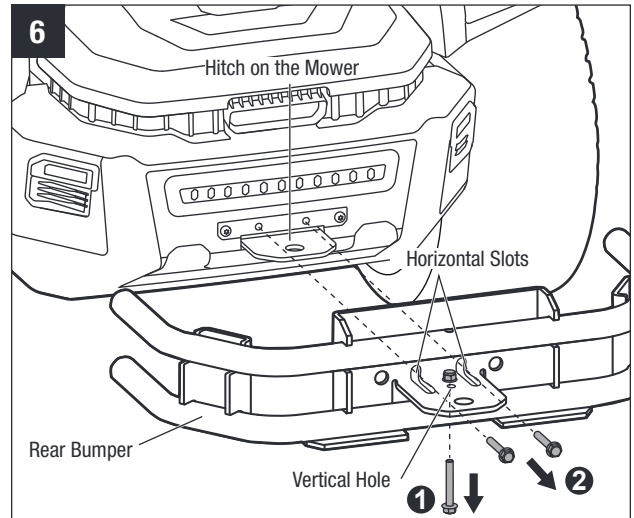


D. DETACHING THE REAR BUMPER (OPTIONAL) (FIG. 6)

The rear bumper provides additional protection for the rear of the mower. However, the rear bumper could be detached from the mower according to your needs.

Required Tool (supplied): 13 mm wrench

1. Loosen and remove the bolt and nut from the vertical hole.
2. Loosen and remove the two bolts from the horizontal slots.
3. Detach the rear bumper from the mower. Store the rear bumper assembly and fasteners for future use.



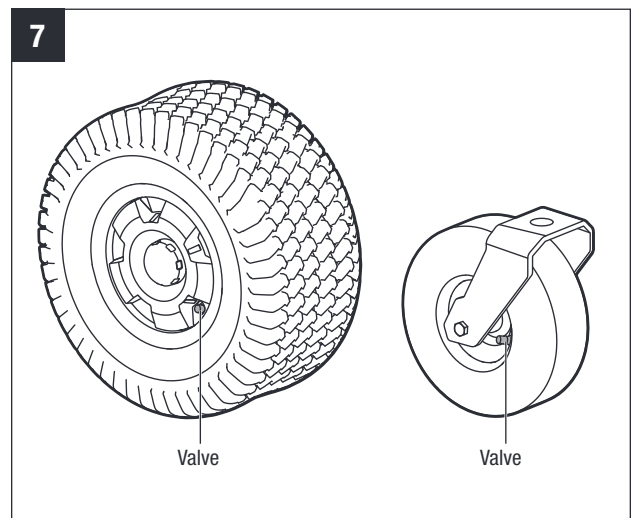
E. CHECKING THE TIRE PRESSURE (FIG. 7)

Required tools (not supplied): Tire pressure gauge; air compressor / inflator or heavy-duty bicycle pump.

Check the air pressure in all tires before use. Be sure tires are inflated to the pressure shown below.

Recommended Pressure	
Front Wheels	Rear Wheels
32 PSI (222.1 kPa)	16.8 PSI (115.8 kPa)

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



F. TESTING THE MOWER OPERATION (FIG. 8)

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

TO TEST THE SAFETY INTERLOCK SYSTEM

The mower incorporates a safety interlock system that will stop the drive motors and deck motors when the operator is unseated for any reason while the mower is operating. This is a safety feature designed to prevent runaway or accidental entanglement. Test the system to be sure it is working correctly

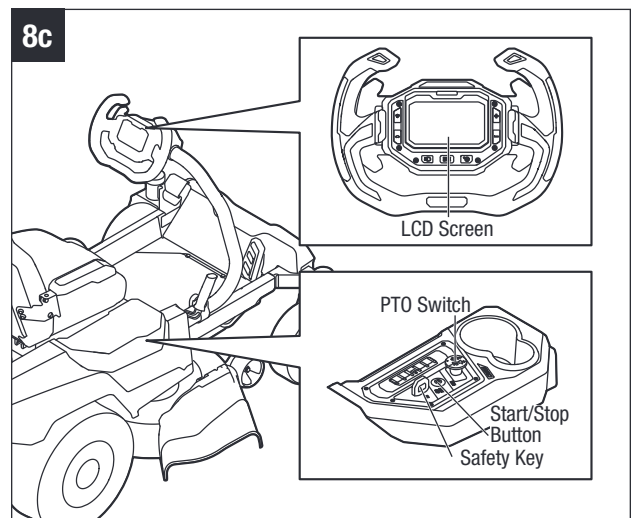
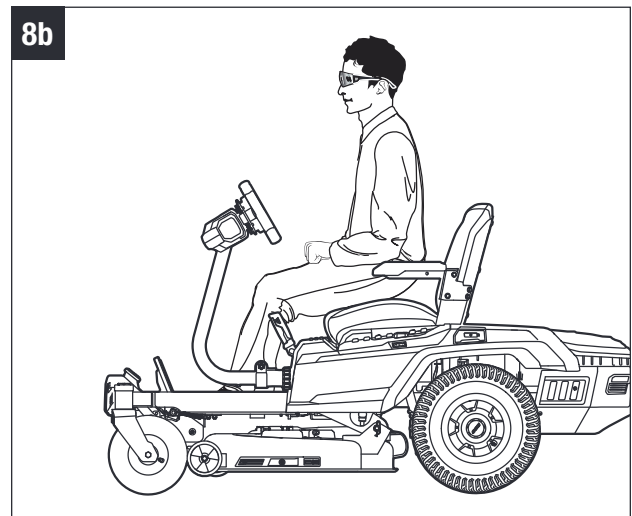
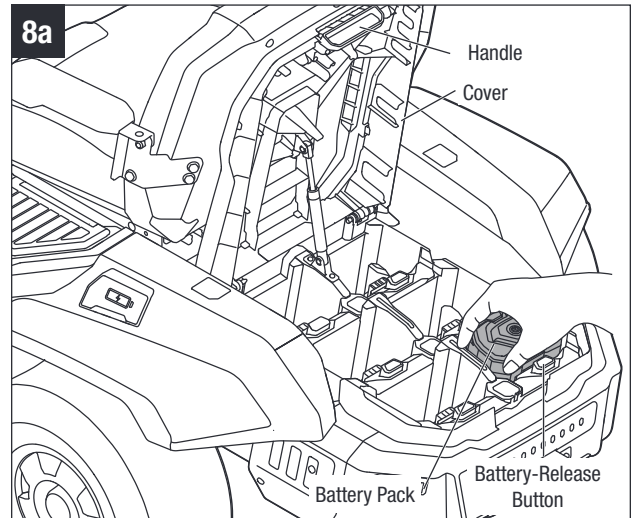
1. Position the mower on a level surface.
2. Remove the battery packs from the box.
3. Insert battery packs (Fig. 8a):
 - a. Grasp the handle and press it in slightly. This will unlock the cover. The cover will slowly lift on its own.
 - b. Insert both battery packs as shown until they audibly lock in place.
 - c. Close the cover.
4. Pick up one of the safety keys and sit down on the mower seat (Fig. 8b).
5. Insert the safety key into the mower and press the start/stop button for 3 seconds. The LCD screen will illuminate indicating that the mower is ready for operation (Fig. 8c).
6. Pull the PTO switch up to turn on the blade motors (Fig. 8c).
7. Slowly raise yourself off the seat, but do not get off the mower. The blade motors should stop.

NOTICE: If the deck-blade system fails to stop when the operator is off of the seat:


- a. Push the PTO switch down to turn off the blade motors.
- b. Disconnect the safety key and battery packs.
- c. Verify that the cable and the plug are properly connected.
Refer to step 1 in chapter “**INSTALLING THE SEAT**” earlier.

If the cause cannot be determined after confirming the plug and socket connection of the seat is properly connected, contact your EGO customer service center immediately.

⚠ WARNING: DO NOT operate the mower until the safety interlock system has been repaired by a qualified service technician.



TO TEST-DRIVE THE MOWER

1. While still seated on the mower, make sure it is on (LCD screen is illuminated) and the parking-brake pedal is disengaged (Fig. 8d).
2. Press the “” button several times to set the driving speed to the slowest available (Fig. 8d).
3. Pull both left paddle and right paddle towards the operator simultaneously and then release them, the mower status indicator will shine green, which means the mower is ready to drive.

4. **To drive forward:** depress the accelerator pedal.

To drive in reverse: pull one of or both paddles towards the operator and hold them in that position, then depress the accelerator pedal.

5. While the mower is moving, slowly raise yourself off of the seat. The driving system should stop the mower.

NOTICE: If the driving system fails to stop when the operator is off of the seat:

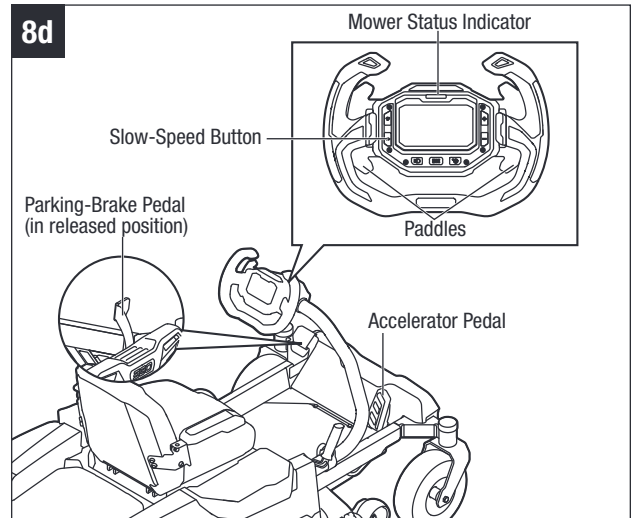
- a. Release the accelerator pedal to stop the mower.
- b. Press the parking-brake pedal to engage the brake.
- c. Disconnect the safety key and battery packs.
- d. Verify that the cable and the plug are properly connected. Refer to step 1 in chapter “**INSTALLING THE SEAT**” earlier.

If the cause cannot be determined after confirming the plug and socket connection of the seat is properly connected, contact your EGO customer service center immediately.

⚠ WARNING: DO NOT operate the mower until the safety interlock system has been repaired by a qualified service technician.

G. REGISTER YOUR PRODUCT



Please take a moment to register your mower by visiting www.egopowerplus.com/your-ego

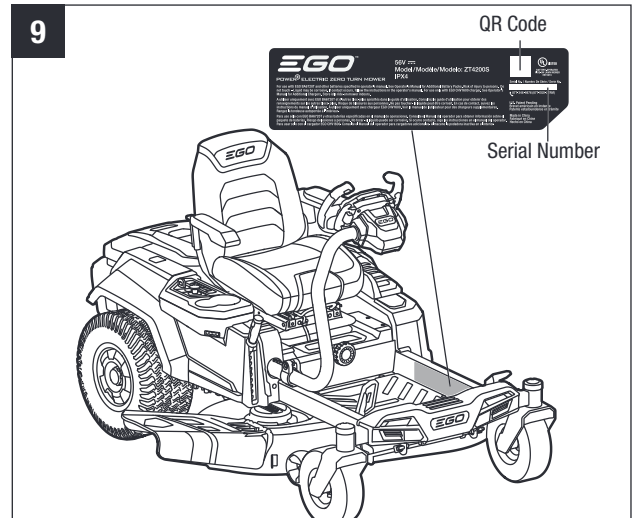


H. CHECKING FOR FIRMWARE UPDATES

To assure that your mower is in top shape, install the **EGO Power+ App** on your smartphone or tablet and periodically check for available firmware updates. EGO Power+ App can be downloaded for free from Apple App Store or Google Play.


TO INSTALL AND SET UP THE APP

1. Download the EGO Power+ app from App Store for iOS devices such as iPhone or from Google Play for Android devices.
2. Make sure that Bluetooth is enabled on your mobile device and your device is connected to internet.
3. In the app, press “SIGN IN” if you already have an account or “SIGN UP” and follow the steps to create a new account.
4. Briefly press the “Start/Stop” button on the mower – the LCD screen will light up and display the “fuel gauge”. Do NOT hold the button down to fully turn on the mower (the screen and ALL the buttons light up).
5. In the app, tap “Add Tool” and follow the app’s instructions to scan the QR code. The location of the QR code and Serial Number is shown in Fig. 9.
6. If the app fails to scan the QR code, you will be prompted to manually enter the serial number. The app will add your mower to “MY TOOLS”.
7. Locate the Bluetooth  button on the app screen and tap it. The app should automatically connect to your mower. If it does not, please try to perform the following troubleshooting steps:
 - a. Restart your app.
 - b. Restart your mower by turning it off and on.
 - c. Hold down the CCS button  on your mower for 4 seconds and the app will disconnect from your mower. This button is located below the LCD screen on your mower.
 - d. Delete and add the mower again within the app.



TO UPDATE THE FIRMWARE

Firmware is an operating system running on your mower’s on-board computer. Periodically new versions of firmware become available. It is highly recommended that the latest version is installed on your mower to make sure that the mower delivers the best performance, safety, and energy consumption.

1. Tap on the mower icon in the app.
2. In the Status screen, if you see a green  mark underneath the word “FIRMWARE”, your mower has the latest version installed and no action is necessary. If you see a red “UPDATE!” button, tap on it to install the latest firmware. The mower status indicator over the LCD screen will flash ORANGE during update.
3. Follow the app’s instructions to complete the firmware update. This step will require you:
 - To NOT SIT on the mower’s seat.
 - To quickly press the “Start/Stop” button located next to the safety key on your mower to make sure that the LCD screen is on.
 - To pull up the red PTO switch on the mower.

USING EGO POWER+ APP WITH YOUR MOWER

The app can do the following while connected to the mower:

- Provide projected run time/charge time remaining.
- Display remaining charge level of each individual battery pack.
- Provide blade rotation speed (RPM) as well as mower's driving speed (mph).

EGO Power+ app exclusively allows the operator to customize some of the functions of the mower that are not accessible via physical buttons and LCD screen:

- The app can be used as a remote key instead of the physical safety key.
- Toggle a backup alert – allows the operator to choose between the sound alert (beeps), sound alert and flashing lights, and flashing lights only when the mower is driven in reverse.
- Daytime lights – allows the operator to turn the daytime running lights on, off, or gradually turn on and off in an animated sequence.
- Set a headlight delay – allows the operator to set how long the headlights remain on after the mower is turned off.

CUSTOMIZING YOUR MOWING AND DRIVING EXPERIENCE

For the best mowing experience, we recommend customizing the following settings depending on your situation.

TO SELECT YOUR DRIVING MODE:

The driving modes determine how sensitive the mower is to user's actions.

- **CONTROL:** slower acceleration, less sensitive handling, and mild turning speed to protect the grass. This mode is perfect for new users.
- **STANDARD:** perfect for everyday use.
- **SPORT:** faster acceleration, responsive handling, and sharp turning to maximize the mowing area. This mode is recommended for more experienced users. **SPORT** mode will improve driving experience on a slope.

⚠ WARNING: The operator should be familiar and experienced with zero turn mower handling and operations before using the **SPORT** mode.

NOTE: The driving mode cannot be adjusted during driving. The function will activate only when the mower wheels are stopped.

TO SELECT YOUR DRIVING SPEED LEVEL:

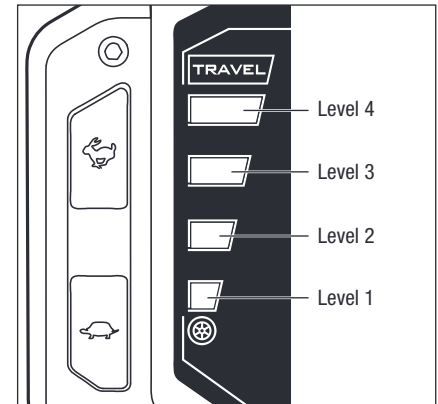
The driving speed level establishes the maximum driving speed of the mower.

Level 1 and 2 (Low speeds): for low-speed edging and trimming, or when mowing or driving in tight areas.

Level 3 (Standard speed): offers the best balance between cut quality and run time.

Level 4 (Max speed): maximize the coverage area when mowing large, flat lawns.

“TRAVEL” speed: The highest driving speed for travelling and towing. The mower’s blade motors will automatically stop.



- Press “” to increase the top driving speed of the mower or press “” to reduce the top driving speed of the mower.
- Press and hold “” for 3 seconds and the mower will switch into “TRAVEL” mode. When in “TRAVEL” mode, press “”, to resume the previous speed.

NOTE: Higher driving speed will increase run time and coverage.

NOTE: The driving speed level can be adjusted during driving.

TO SELECT YOUR BLADE SPEED LEVEL:

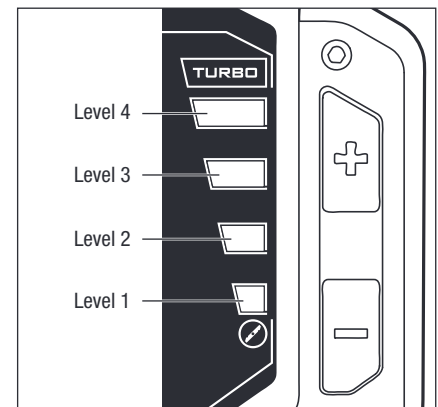
Allows the user to customize the blade speed, depending on grass conditions. The user can adjust the blade speed during grass cutting. Mowing time will be increased when mowing at lower blade speeds.

Level 1 (ECO mode): provides the lowest noise level and longest run time from your battery packs.

Level 2 (Standard mode): for normal condition cutting, best balance between performance and run time.

Level 3 & 4 (Heavy duty mode): for tall grass or extremely wet grass condition.

“TURBO” mode: the highest blade speed, to tackle any grass condition.



- Press “+” to accelerate the blade speed and press “-” to decrease the blade speed.
- Press and hold “+” for 3 seconds and the mower will switch into “TURBO” mode. When in “TURBO” mode, press “-“, and the blade speed will resume the previous speed.

NOTE: Higher blade speed will significantly affect run time.

NOTE: The blade speed can be adjusted during driving.

OPERATION

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

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

APPLICATION

You may use this product for the purpose listed below:

- Mowing your lawn.

MOWER ADJUSTMENT

⚠ WARNING: Before performing any adjustment, stop the mower on a level surface and wait for the blades to come to a complete stop. Set the parking brake and remove the safety key to avoid accidental starting and possible serious personal injury.

Adjusting the cutting-deck height (Fig. 10)

NOTE: EGO electric zero turn mower's deck is set in the highest cutting height when it is shipped. Before using the mower, the operator should adjust the deck height to the cutting position best suited for the lawn.

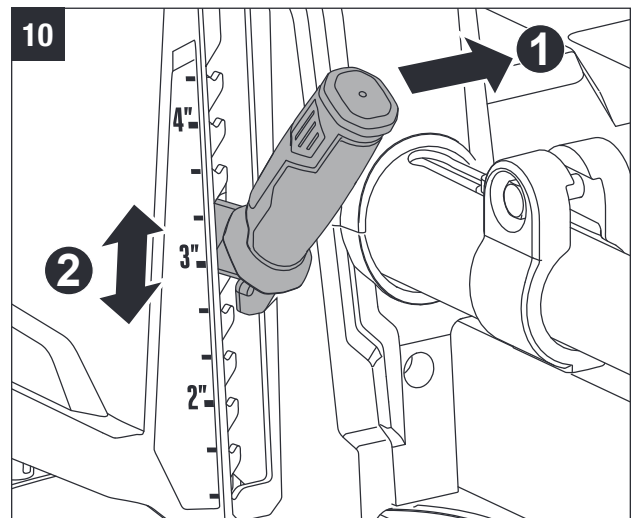
NOTE: To prevent scalping the lawn when encountering high spots, the two anti-scalp wheels can be adjusted when the mower is at the desired cutting height. Depending on your desired cutting height, you may need to change the position of the anti-scalp wheels. Please refer to “**ADJUSTING THE ANTI-SCALP WHEELS**” section in this manual.

1. Make sure that the batteries have been removed from the mower before making any adjustments.
2. Grasp the deck-height adjustment lever and move it inwards to disengage it from the detent.
3. Move it downward or upward and engage it into the detent when it arrives at the desired cutting height.

NOTICE: Prior to mowing, the deck should be adjusted to sufficient height to avoid stumps, rocks, or other obstacles that can damage the mower deck.

⚠ DANGER: Never attempt to make any adjustments to the mower deck while the mower is driving or the blade motors are turned on. Mower blades cannot be seen and are located very close to the deck housing. Fingers and toes can be cut off instantly.

⚠ WARNING: Hold the deck-height adjustment lever firmly when setting the deck height and only release when it is securely engaged in the desired detent. Quickly letting go of the lever may create a pinching or pulling hazard to the operator's hand.



Adjusting the anti-scalp wheels (Fig. 11)

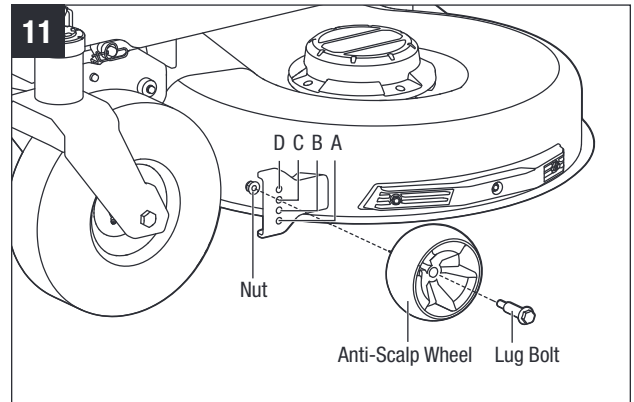
Required tools

- one 13 mm wrench (supplied)
- one 15 mm wrench (not supplied)

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:

4"	Position A: greater than 4" (102 mm) grass cutting height
3"	Position B: 3" – 4" (76 – 102 mm) grass cutting height
2"	Position C: 2" – 3" (51 – 76 mm) grass cutting height
1"	Position D: less than 2" (51 mm) grass cutting height



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

1. Raise the deck to the desired cutting height.
2. Use the 13 mm wrench to stabilize the nut first and then loosen and remove the lug bolt on the other side using the 15 mm wrench.
3. Move the anti-scalp wheel to the desired position. Then tighten the lug bolt and nut securely with the wrenches. The recommended torque for the lug bolts is 22-26 ft-lb (30-35 Nm).
4. Repeat with the other anti-scalp wheel, making sure both wheels are installed in the same position.

Adjusting the seat (Fig. 12)

⚠ DANGER: Be sure the seat is secured to the mower with the supplied socket-head screws before operating the mower. A seat that is not secured can cause the operator to lose control of the mower and result in possible death or serious personal injury.

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



The seat can be adjusted forward and rearward by lifting the seat position adjustment lever under the seat.

1. Lift the seat position adjustment lever and hold it, then move the seat forward or backward to the desired position.
2. Release the seat position adjustment lever and ensure that the seat is locked in position.

The comfort of the seat can also be adjusted with the seat-suspension adjustment knob on the underside of the seat. Loosen or tighten the adjustment knob as indicated to achieve the most comfortable suspension.

Adjusting the steering wheel (Fig. 13)

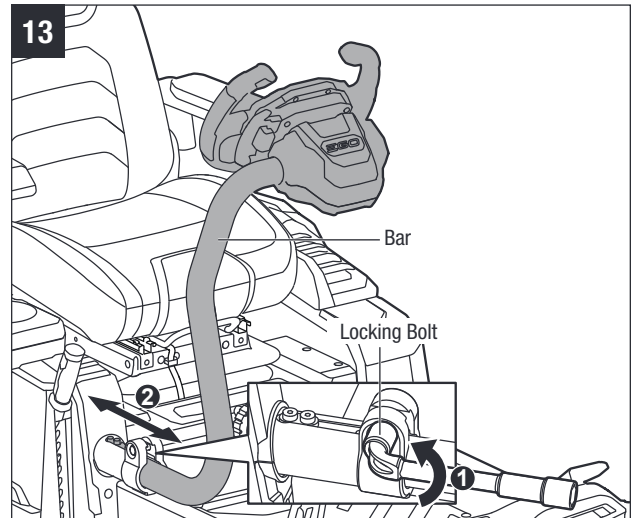
Required tool (supplied): socket wrench with the 14 mm end

Once the seat position is adjusted for comfort and reach of the pedals, the position of the steering wheel can also be adjusted forward or backward for comfort.

1. Use the supplied wrench to loosen the locking bolt.
2. Grab the bar of the steering wheel and pull it forward out of the sleeve or backward into the sleeve until the desired position is reached.

NOTICE: Make sure the locating block of the bar remains engaged into the slot of the sleeve, otherwise the steering wheel may fall down unexpectedly causing damage to the steering wheel.

3. Use the wrench to tighten the locking bolt. The recommended torque for the locking bolt is 36-41 ft-lb (50-55 Nm).



SETTING THE PARKING-BRAKE PEDAL (Fig. 14)

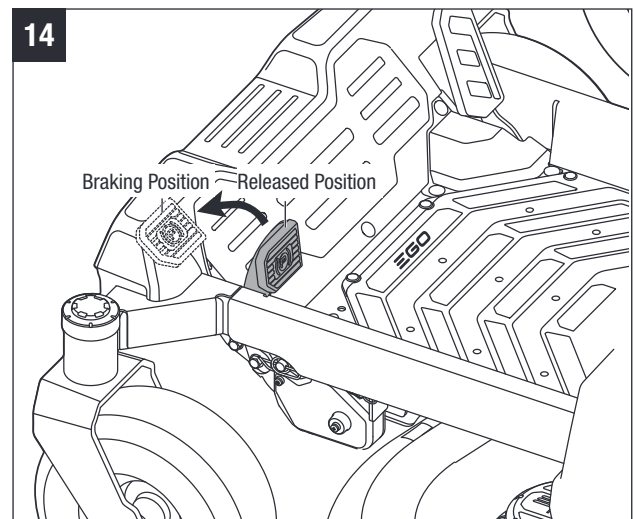
The parking-brake pedal is used to lock the mower in the braking position. To start the mower, it should be released from the braking position.

To set the parking brake:

1. Use your left foot to fully depress and hold the parking-brake pedal until the pedal stops rebounding.
2. Release the parking-brake pedal. Remove your foot from the parking-brake pedal.

To release the parking brake, depress the parking-brake pedal once again; the pedal will rebound to the released position.

⚠ WARNING: Never leave the mower unattended during work breaks without verifying that the parking brake is set and the safety key is removed. Failure to set the parking brake could cause the mower to move. Leaving the safety key in place may allow unauthorized use that could result in serious personal injury.



ATTACHING/DETACHING THE BATTERY PACK (Fig. 15)

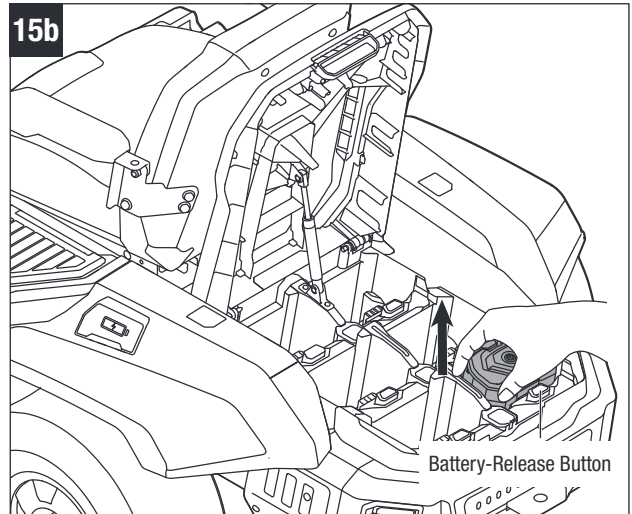
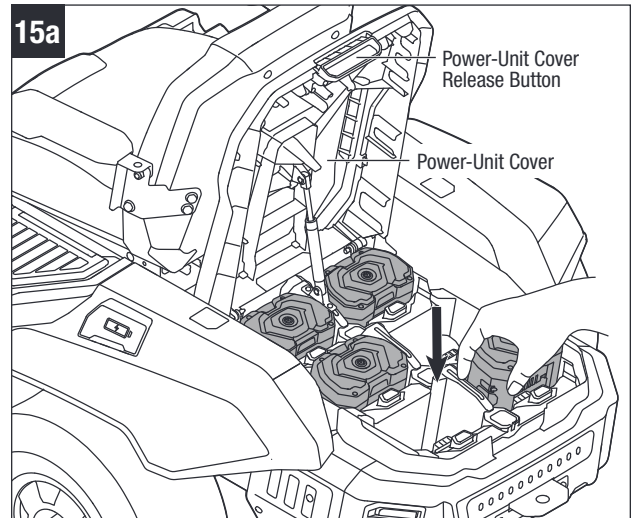
Charge the battery pack(s) before first use!

NOTE: In order to start this mower, EGO batteries totaling 15Ah (2 x BA4200/BA4200T) or more are required. For best performance, we recommend use of EGO batteries that total 30Ah or more.

When not in use, EGO 56V battery packs should be stored in an enclosed area where the temperature will not drop below -4°F (-20°C). Optimal charging temperatures are between 41°F (5°C) and 104°F (40°C).

⚠ WARNING: If any parts are broken or missing, do not attempt to attach the battery packs to the mower or operate the mower until the broken or missing parts are replaced. Failure to do so could result in serious injury.

1. Unlock the power-unit cover by grasping the power-unit cover release button and pressing it slightly inward.
2. The power-unit cover will automatically open slowly with the help of the spring bar. The EGO electric zero turn mower is equipped with six battery compartments to accommodate up to six battery packs at the same time.
3. Align the grooves in the battery pack with the raised ribs in the battery compartment, and then insert the battery pack into the compartment.
4. Push the battery pack until you hear a “click”. The battery release button will spring up when the battery pack is securely attached (Fig. 15a).
5. Attach more battery packs into the remaining battery compartments in the same way.
6. **To detach the battery pack**, depress the battery-release button to release the battery pack, and then lift it out of the compartment (Fig. 15b).
7. Close the power unit cover until you hear a clear “click”, indicating that the power unit cover release button is engaged.



CHARGING (Fig. 16)

When battery charge becomes low, the mower will go into Limp-Home mode and will permit the mower to travel a maximum distance of 0.6 mile (0.96 km) back to the battery-charging area. The blades are automatically switched into low rotation speed to save the battery charge.

⚠ WARNING: Do not attempt to drive across roads or railways when battery charge level is low.

NOTICE: DO NOT attempt to charge the batteries or the mower with a charger not designed for use with this product.

There are two ways to charge the mower:

Charging the batteries separately

Remove the batteries from the mower and charge the batteries separately with EGO standard charger or rapid chargers. Please follow the instructions in the Operator's Manual for the EGO standard charger or rapid chargers.

NOTE: There are individual manuals for EGO batteries and chargers. Save the instructions - The manuals contain important safety and operating instructions for the battery and charger.

Charging the Batteries via Charging Port

EGO battery charger CHV1600/CHV1600-FC is available for charging the EGO electric zero turn mower directly while the batteries are installed in the mower.

The battery charging port is located on the left housing of the mower, next to the storage compartment (Fig. 16a).

1. Stop the mower and remove the safety key; make sure that the mower comes to a complete stop.
2. Lift the dust cap from the battery charging port on the mower and connect the CHV1600/CHV1600-FC charger plug into the port.

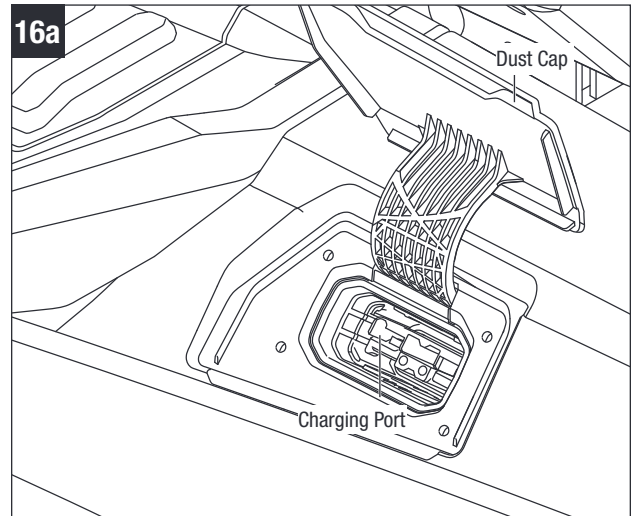
NOTE: Plug will only fit one way into the port. Make sure it is properly aligned before inserting.

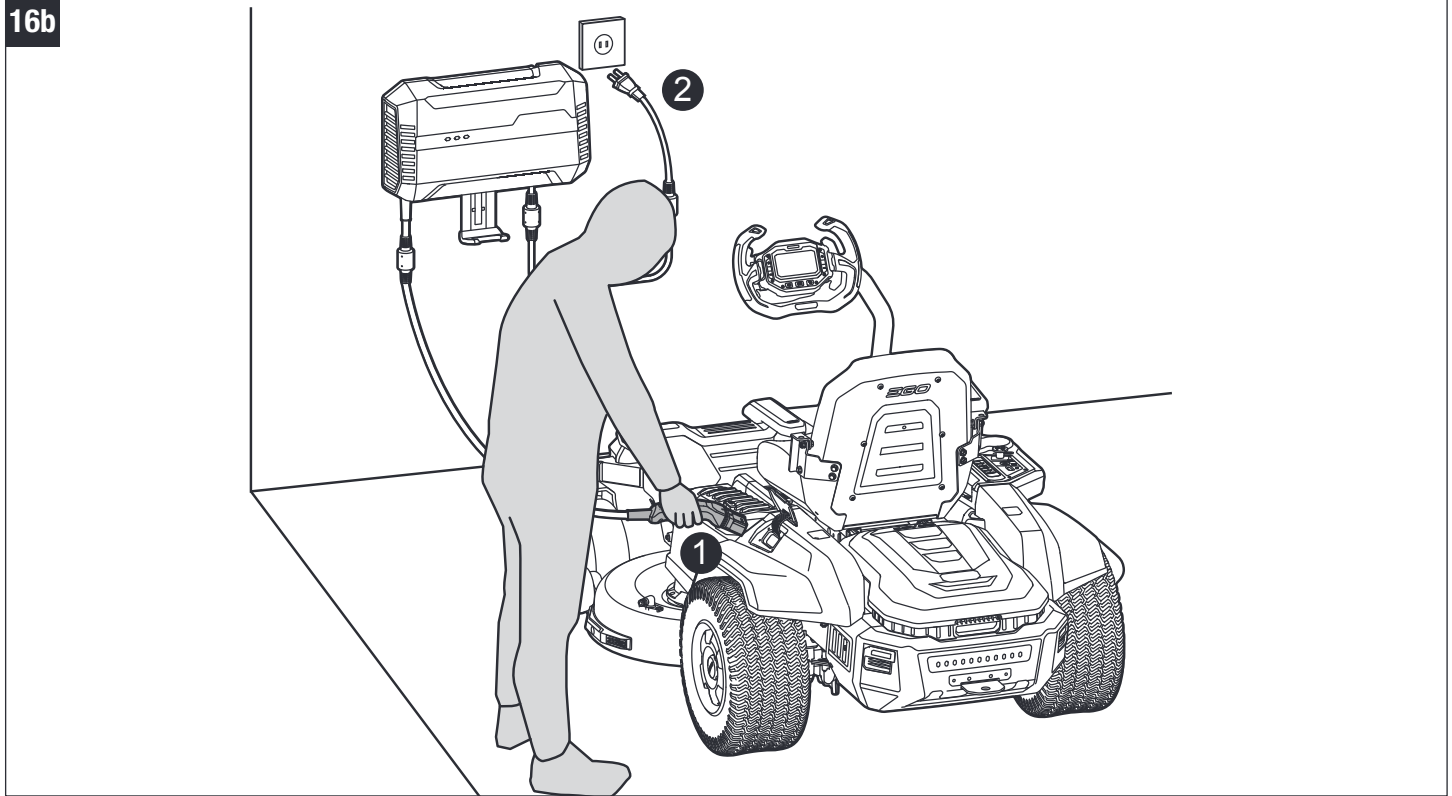
3. Plug the other end of the charger into a 120V household outlet.
4. The charger will start to charge the batteries. After the batteries are fully charged, as indicated on the LCD screen, disconnect the charger plug from the wall outlet and remove the charger plug from the port.
5. Cover the charger port with the dust cap and begin operating the mower.

⚠ WARNING: Please refer to the charger manual for detailed instructions. Read and understand all its safety warnings and instructions. Failure to follow them may result in electric shock, fire, and/or serious injury.

⚠ WARNING: Do not smoke while charging the mower with the batteries installed.

⚠ WARNING: The mower should be charged in a covered area out of the rain or indoors.





NOTE:

- EGO Lithium-ion batteries do not develop a memory and need not be fully discharged before recharging.
- Every six months of long-term storage, fully charge the Lithium-Ion battery pack for longest possible battery life.
- When charging, be sure that the charger cooling fan inlet and outlet are not blocked.

CHECKLIST BEFORE STARTING THE MOWER

- Ensure that the work area is clear of children, bystanders, and pets.
- Clear the work area of objects that may be thrown by the mower blades.
- Clean debris from the mower.
- Check for loose fasteners.
- Check to make sure that all guards are in place and working properly.
- Visually check the tires whether they are inflated.
- Check the brake operation.
- Adjust the deck height to the desired cutting position best suited for the lawn, and adjust anti-scalp wheels accordingly.
- Adjust the seat position and make sure both pedals can be reached.
- Adjust the steering wheel to desired position if necessary.

- Verify the battery charge level.
- Test the safety interlock system.

STARTING THE ELECTRIC ZERO TURN MOWER (Fig. 17)

Operating a zero turn mower is different from operating a standard riding mower. Zero turn mowers are rear-wheel drive and the wheels powered independently by dedicated motors as directed by the rotation of the steering wheel. Before you begin to mow your grass, we strongly encourage you to find a large, level, and open area to practice operating the mower using the instructions that follow. Once you can comfortably and reliably perform each of these maneuvers, you are ready to begin mowing.

⚠ WARNING: Clear the area of bystanders before operating the mower. If anyone enters the mowing area, stop immediately and do not continue mowing until the bystanders leave the area.

⚠ DANGER: Avoid sudden starts, stops, and turns, as well as excessive speed, especially when first learning to operate the mower. The mower can spin rapidly, which may cause you to lose control and could result in death, serious personal injury and/or damage to the mower. Press the driving speed adjustment button to the lowest speed level (refer to “**Driving Speed Adjustment Button**” in this manual) to limit the amount of speed available until you are fully capable of operating the mower in all situations.

1. Insert the safety key.
2. With the safety key inserted, press the start/stop button for 3 seconds to illuminate the LCD screen.
3. Check for the appropriate driving mode, driving speed, and blade speed by pressing the driving mode button, driving speed adjustment button, and blade speed adjustment button respectively.

NOTICE: It is always recommended to start the mower in the lowest driving speed.

4. Release the parking-brake pedal from the braking position.
5. Pull both left paddle and right paddle towards the operator simultaneously and then release them, the mower status indicator will shine green, which means the mower is ready to drive.

NOTE: Make sure the paddles are pulled towards the operator until a “click” sound is heard, then the mower status indicator will shine green.

NOTE: Make sure the accelerator pedal is depressed after the mower status indicator shines green, otherwise the mower will not move and the mower status indicator will flash green.

6. Pull the PTO switch to start the cutting blades.

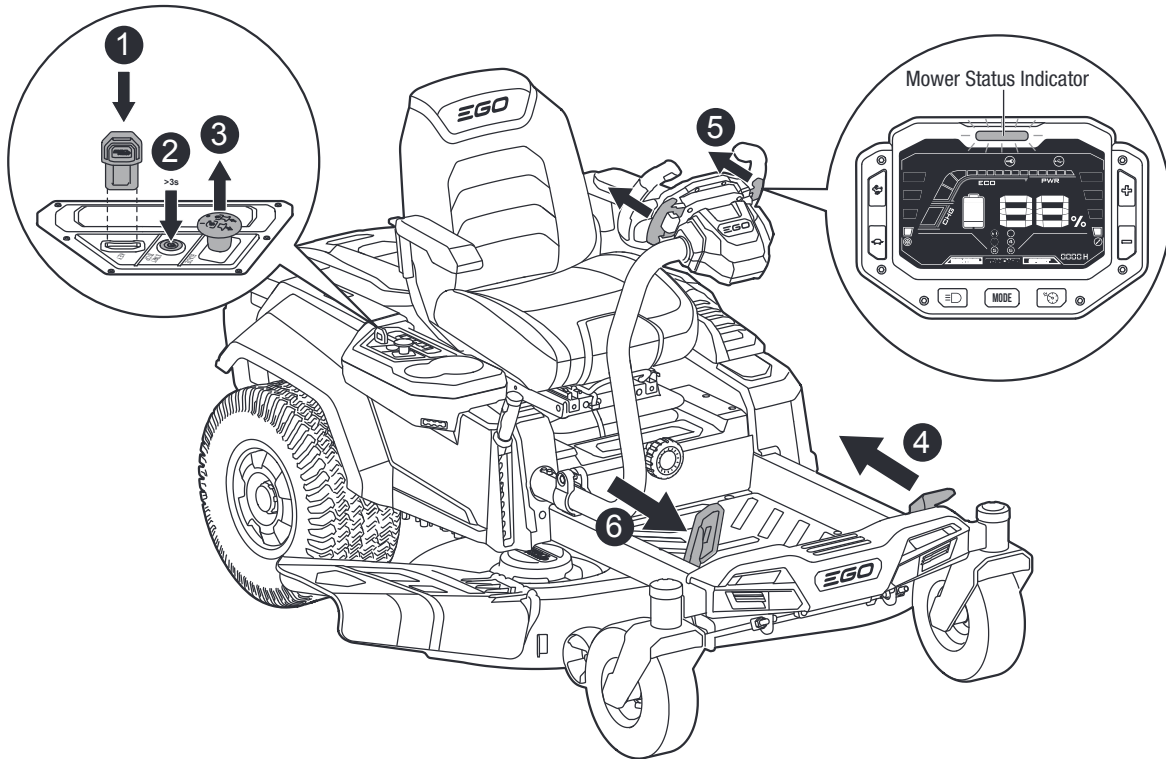
NOTE: The cutting blades could be started at any time once the steps 1 and 2 are completed.

7. **To drive forward:** depress the accelerator pedal.

NOTE: When the accelerator pedal is released the mower will not continue to coast like a typical gas-powered car. Instead, the electric brake will be applied and the mower will stop abruptly.

8. **To drive in reverse:** pull one of or both paddles towards the operator and hold them in that position, then depress the accelerator pedal.

NOTICE: When the mower is started on a slope, the moment the accelerator pedal is depressed, the mower will keep still on the slope without sliding along the slope. Once the accelerator pedal is depressed harder, the mower will start driving forward normally. This is a function of the Slope Assist feature for safe starting of EGO electric zero turn mower.



STOPPING THE ELECTRIC ZERO TURN MOWER

⚠ DANGER: Never make sudden stops or abrupt changes of direction, especially when maneuvering on a slope. The steering wheel and accelerator pedal are designed for sensitive response. Quickly stepping on the accelerator or rotating the steering wheel in either direction could result in a reaction of the mower that can cause serious injury.

1. Release the accelerator pedal and the left/right paddle if it is pulled toward the operator.
2. Push the PTO switch downward to turn off the blade motors.

NOTE: The cutting blades may be stopped at any time.

3. Set the parking-brake pedal to the braking position.
4. Press the start/stop button for more than 3 seconds to turn off the mower.
5. Remove the safety key from the mower and keep it in a safe place.

NOTE: In a situation when the parking-brake pedal is set to the braking position and the operator is off the seat but the battery packs are not removed:

- In case the LCD screen is turned off, the battery indicators, start/stop button, and CCS button will remain illuminated for 60 minutes.
- In case the LCD screen shows the “fuel gauge” or operator interface, the mower will automatically shut off after 60 minutes.

⚠ WARNING: Do not stop the mower on a slope. Always stop the mower on a flat, level surface and never leave the mower unattended with the safety key inserted, even just for a brief period. Leaving the safety key inserted may allow unauthorized use that could result in serious personal injury.

⚠ WARNING: When the mower stops driving on a slope and the operator is off the seat without setting the parking-brake pedal at the braking position, the audio indicator will continue to beep intermittently to remind the operator to set the parking-brake for safe mower stopping on the slope. Always set the parking-brake pedal at the braking position when leaving the seat. **Otherwise, when the battery power is depleted, the mower will slide down the slope, which may cause serious mower damage or personal injury!**

DRIVING THE ELECTRIC ZERO TURN MOWER (Fig. 18)

After starting the mower, engage the steering wheel as follows:

- **To drive straight forward**, hold the steering wheel straight with no rotation. Control the driving speed with the accelerator pedal.
- **To drive in reverse**, pull and hold the left or right, or both paddles towards the operator, and hold the steering wheel straight with no rotation. Control the driving speed with the accelerator pedal.

NOTE: When pulling left/right paddle towards the operator WHILE driving forward, the mower will decrease its speed to zero and then shift in reverse. The “R” icon will illuminate on the LCD screen and a beep will sound once.

NOTE: When the accelerator pedal is released the mower will not continue to coast like a typical gas-powered car. Instead, the electric brake will be applied and the mower will stop abruptly.

- **To turn left**, rotate the steering wheel to the left.
- **To turn right**, rotate the steering wheel to the right.
- **To execute a zero-radius turn**, slow down first and then rotate the steering wheel all the way to the right or left.

NOTICE: Rapid movement of steering wheel is not recommended as damage to the electric components of the mower may occur.

NOTICE: Aggressive turning can scuff or damage lawns. Perform zero turns at low driving speed.

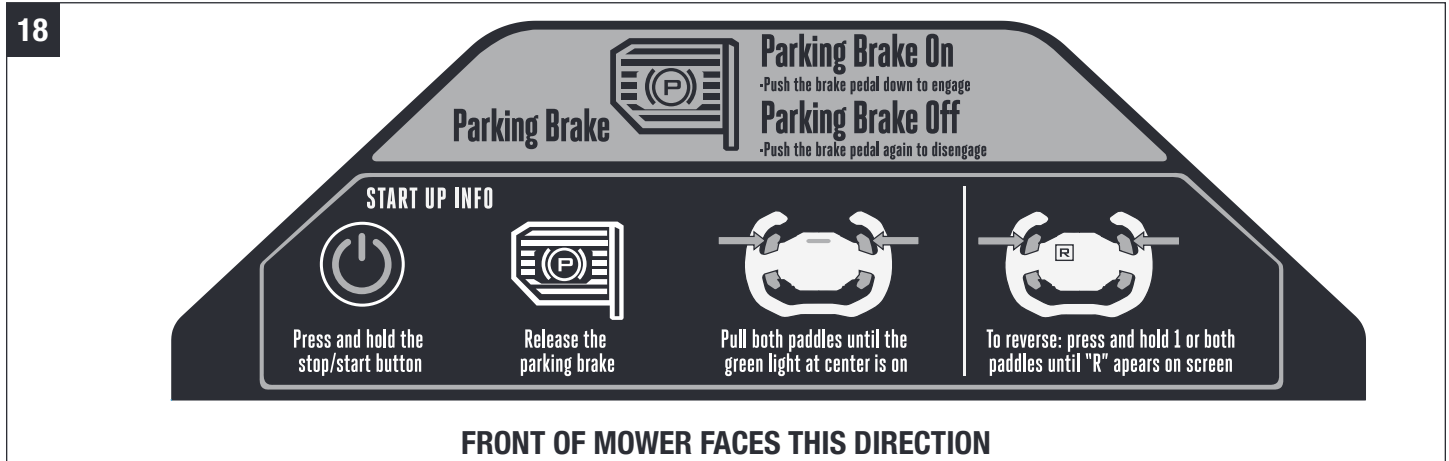
- **To stop or decrease speed**, release the accelerator pedal slowly.
- **To increase speed**, depress the accelerator pedal all the way. The farther the accelerator pedal is depressed, the faster the mower will travel.

⚠ DANGER: Stay at least two mowing widths (7 ft /2.13 m) away from any ditches, drop-offs, or water. Front wheels can rotate when the mower is stopped, even with the brake applied, and cause the mower to go over the edge or into the water and result in death or serious personal injury.

⚠ WARNING: Be aware of what is behind the mower before backing up. DO NOT mow in reverse unless absolutely necessary. Always look down and behind before and while backing to make sure no children, bystanders, or pets enter the mowing area. Remember that a careless fraction of a second is sufficient to inflict death or serious injury.

⚠ WARNING: Be certain you have correctly set your intended direction of driving with the steering wheel before depressing the accelerator pedal. Failure to do so could result in you driving the mower in an unintended direction, which could cause loss of control or an accident.

⚠ WARNING: Be cautious when crossing over gravel paths or driveways. Before crossing, turn off the blade motors and raise the cutting deck to the highest position to minimize the possibility of ricochet. Drive slowly to avoid loss of traction and control.



USING CRUISE CONTROL (CCS)

During driving, the mower could be set to continue at a desired speed without depressing the accelerator pedal.

To activate (enter) Cruise Control (CCS) (Fig. 19)

1. While driving at a comfortable speed, press the CCS button, the “” icon will illuminate on the LCD screen and a beep will sound twice.
2. Then release the accelerator pedal and the mower will continue driving at the current speed.

NOTE: The driving speed level shown on the LCD screen may not accurately represent the actual driving speed of the mower in cruise control. Press one of the speed adjustment buttons (“” or “”) to “refresh” the driving speed level on the LCD screen.

NOTE: The accelerator pedal should be released immediately once the CCS is set successfully, otherwise the CCS will turn off automatically.

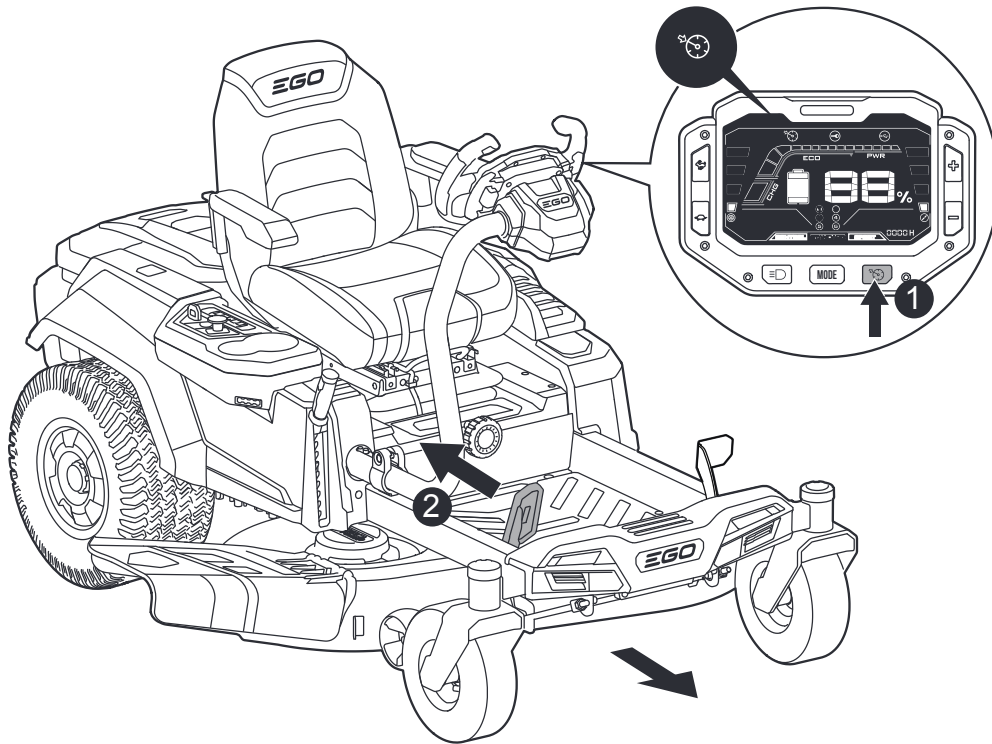
3. To increase the cruise control speed, press the “” button several times until the desired speed is reached.
4. To reduce the cruise control speed, press the “” button several times until the desired speed is reached.

To stop (exit) Cruise Control (CCS), you may choose one of the five ways:

- Depress the accelerator pedal all the way to achieve the current CCS driving speed and keep depressing. The CCS function will stop and the mower will continue driving at the current speed.
- Slightly depress the accelerator pedal and then release it. The mower will stop.
- Pull left/right paddle(s) toward the operator and then release. The mower will stop.
- Engage the parking brake pedal. The mower will stop.
- Press the CCS button. The mower will stop.

When the CCS is stopped, the “” icon disappear from the LCD screen and a beep will sound twice.

19



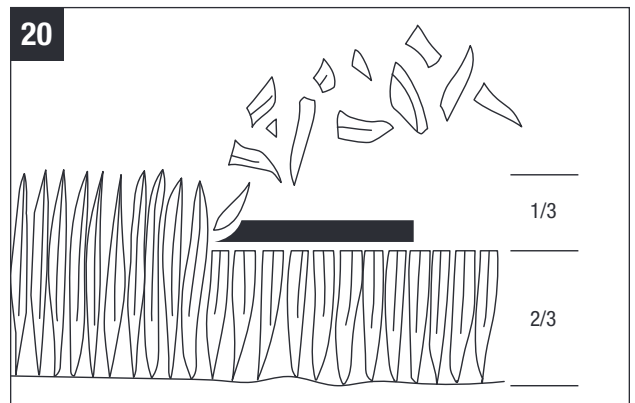
MOWING TIPS

NOTICE: A sharp blade will greatly enhance the performance of the mower, especially when cutting tall grass. Make sure to check the sharpness of the blade before mowing.

- Verify that the lawn is free of stones, sticks, wires, and other objects which could damage the mower’s cutting blades or motors. Such objects could be accidentally thrown by the mower in any direction and could cause serious personal injury to the operator and to others.

⚠ WARNING: If you strike a foreign object, turn off the mower and remove the batteries. Thoroughly inspect the mower for any damage and repair the damage before restarting and operating the mower. Excessive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

- The mowing result will be the best with a high cutting blade speed and low driving speed. If the grass is not too long and dense, the driving speed can be increased without negatively affecting the mowing result.
- When cutting heavy grass, reduce the driving speed to allow for a more effective cutting and a proper discharge of the clippings.



- Begin with a high cutting height and reduce it until the desired mowing result is attained. Grass over 6 inches (152 mm) long should be mowed twice, at successively lower cutting heights.
- To maintain a healthy lawn, cut off only one-third or less of the total length of the grass (Fig. 20). The average lawn should be approximately 1-1/2 to 2 inches (38 – 51mm) long during cool months, and between 2 to 3-1/4 inches (51 – 83 mm) long during hot months. For healthier and better-looking lawns, mow more often after moderate growth.
- Do not cut wet grass. Mowing on wet surfaces can cause loss of control and the wheels to sink into the soft lawn. Wet grass will stick to the underside of the deck and prevent proper bagging or mulching of the grass clippings.
- New or thick grass may require a narrower cut or a higher cutting height.
- Keep the mower deck and side discharge chute clean. Remove grass clippings, leaves, dirt, and any other accumulated debris before and after each use. See section “**CLEANING THE MACHINE**” in this manual.

TIPS TO INCREASE RUN TIME

To get longer run time, please follow these guidelines:

- Use as many battery packs as available.
- Use the battery packs with higher amp-hour (Ah) rating.
- Cut no more than 1.5 inch (38 mm) of grass in one pass.
- Do not cut wet grass.
- Make sure the blades are sharp.
- Make sure that the underside of the deck is clean.
- Slow down the blade speed – Use the blade speed level 1 (ECO).
- Increase the driving speed – Use the driving speed setting 3 (Standard speed) or 4 (Max speed).
- Do not use the mulching plug.
- Do not charge external devices using USB port.

COLD WEATHER OPERATION

NOTICE: Under extreme cold weather, the blade motor and driving function may not start successfully due to the low temperature protection. Please do not make repeated attempts which may damage the machine. Always store the mower and batteries in warm environment. Restart the mower when it is warmed up. Recommended operating temperature is 32°F–104°F (0°C–40°C).

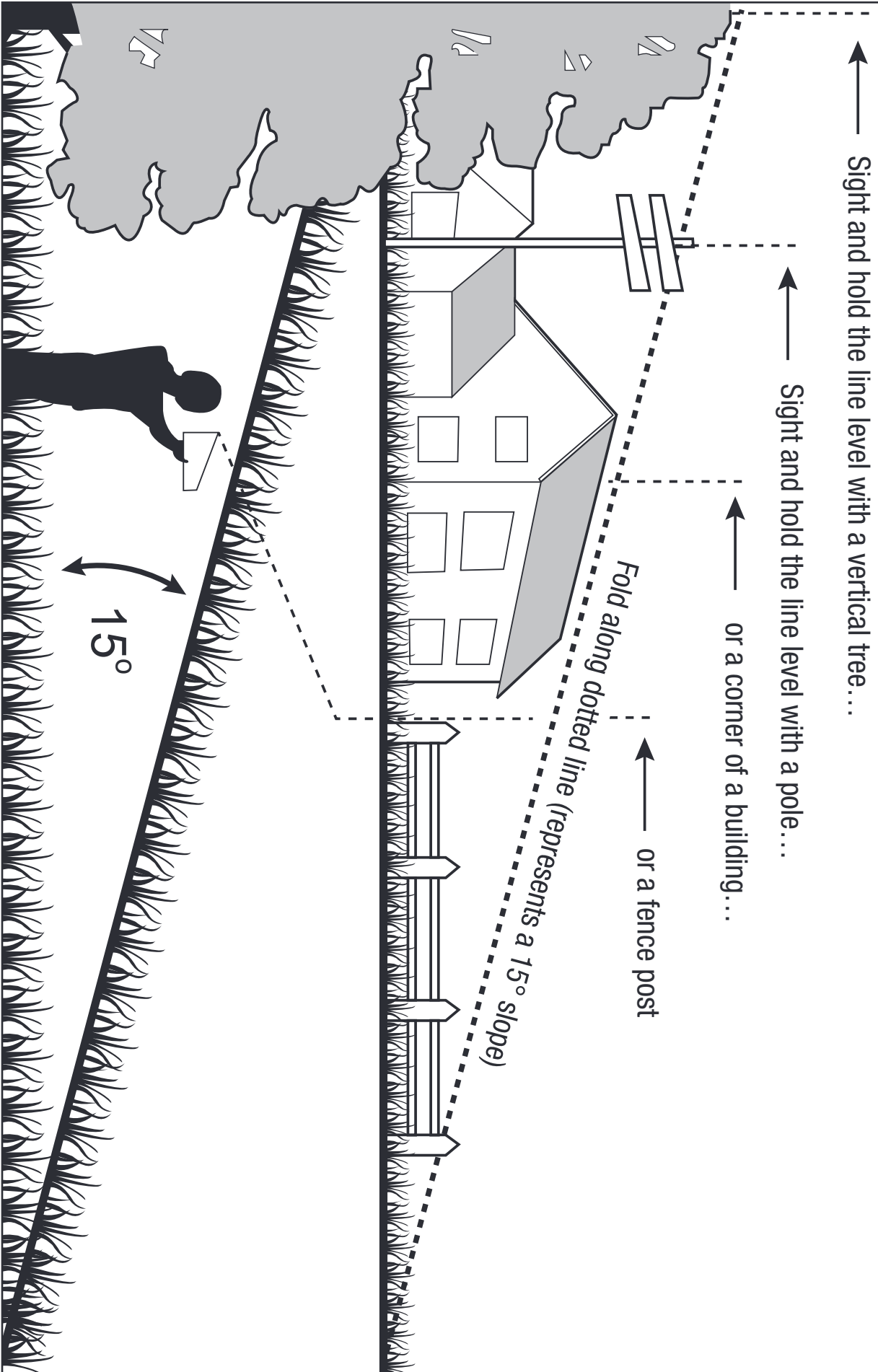
SLOPE OPERATION

See section “**SLOPE SPECIFIC**” in this manual for safety instructions before slope operation.

⚠ DANGER: Slopes are a major factor related to tip-over and roll-over accidents that can result in severe injury or death. Operation on slopes requires extra caution. If you feel uneasy on a slope, do not mow it. For your safety, do not attempt to mow steep slopes greater than 15 degrees. Make a copy or cut out the slope guide image (Fig. 21) and use it to determine if your slope is too steep for safe operation.

⚠ WARNING: Depress the parking-brake pedal immediately in case any emergency occurs.

- Mow up and down, not across the face of slopes.
- Do not mow wet grass. Wet grass can cause the tires to lose traction or slip on slopes, even though the brakes are functioning properly.
- Watch for holes, ruts, rocks, hidden objects, or bumps which can affect your operation. Tall grass can hide obstacles. Remove all objects such as rocks, tree limbs, etc., which could be thrown by the blade.
- Do not mow near drop-offs, ditches, or embankments.
- Drive slowly and do not make sudden changes in speed or direction.
- Avoid stopping on a slope if possible. If stopping on a slope is unavoidable, make sure to engage parking brake. When restarting, use the lowest possible speed. If turning is necessary, exercise extreme caution when changing direction and always turn downhill.
- If using the optional bagger, use extreme caution and operate the mower slowly when operating on slopes, as bagging can change the stability of the mower.
- If at any point the tires lose traction while operating on a slope, disengage the blades and proceed slowly and carefully straight down the slope.



MAINTENANCE

⚠ WARNING: Before performing any maintenance, stop the mower on a level surface and wait for the blades to come to a complete stop. Set the parking brake and remove the safety key 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.

NOTICE: 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.

RECOMMENDED MAINTENANCE SCHEDULE(S)

Maintenance Service Interval	Maintenance Procedure
Before each use or daily	<ul style="list-style-type: none"> ▪ Check the safety-interlock system. ▪ Visually check the tires whether they are inflated. ▪ Inspect the blades. ▪ Inspect the entire product for damaged, missing, or loose parts such as side discharge chute, screws, nuts, bolts, caps, etc., ensuring that all guards are in place and working properly. ▪ Check and make sure the accelerator pedal could be depressed and released freely. ▪ Check the steering wheel damper. The steering wheel should be rotated with certain resistance.
After each use	<ul style="list-style-type: none"> ▪ Clean the mower deck.
Every 25 hours	<ul style="list-style-type: none"> ▪ Check tire pressure.
Every 100 hours	<ul style="list-style-type: none"> ▪ Check the rear wheels, ensuring that the 4 lug nuts are fastened at the recommended torque.
Every 200 hours	<ul style="list-style-type: none"> ▪ Check the front wheels, ensuring that they turn freely.
Before storage	<ul style="list-style-type: none"> ▪ Remove the batteries from the mower. ▪ Remove the safety key from the mower. ▪ Perform all maintenance procedures listed above and thoroughly clean the mower. ▪ Inspect the entire product for damaged, missing, or loose parts. Replace or tighten the corresponding ones before storage.

Maintenance Service Interval	Maintenance Procedure
Annually	<ul style="list-style-type: none"> Check the parking-brake pedal. Remove the battery from the mower and set the parking-brake pedal at the braking 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.

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 cloth to remove dirt, dust, oil, grease, etc. Insect repellent spray may damage plastic and painted surfaces. Do not spray insect repellent near the mower.
- Prolonged exposure to sunlight will damage some surfaces.
- Once the mower is left out in the rain accidentally, use dry clean cloth to dry the seat, control panel, etc., before you restart it or store it.

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

Cleaning the machine

Remove any build-up of grass and leaves on or around the mower housing. Wear eye protection and use compressed air after each use to clean the mower housing or the top side of the mower deck.

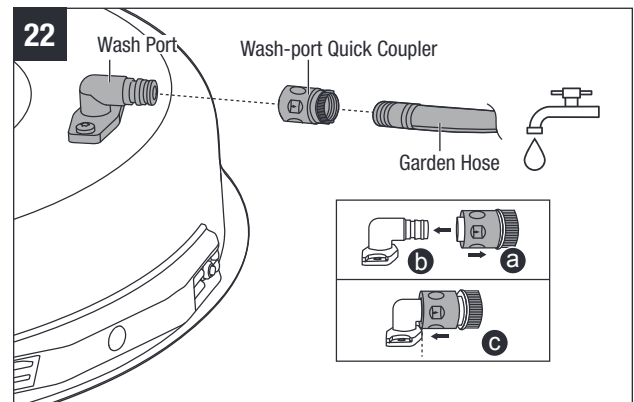
The underside of mower deck should also be cleaned using wash port after each use, as grass clippings, leaves, dirt, and other debris will accumulate, especially when grass is wet or has high moisture content. This accumulation is undesirable, as it will harden, restricting blade and air movement, probably resulting in a poorer quality of cut and even promoting rust and corrosion.

Using wash port to clean mower deck

NOTICE: Follow this procedure after EACH USE to prevent buildup and remove corrosive lawn chemicals.

IMPORTANT: You can wash the machine with a mild detergent and water. Do not pressure wash the machine. Avoid excessive use of water, especially near the control panel, under the seat, around the motors and all electric components and bearings.

- Set the parking-brake pedal to the braking position. Refer to section “**SETTING THE PARKING BRAKE**” in this manual.
- Adjust the mower deck height to the lowest. Refer to section “**ADJUSTING THE CUTTING-DECK HEIGHT**” in this manual.
- Attach the supplied wash-port quick-coupler to garden hose.
- Attach garden hose with quick-coupler to the wash port on the mower deck as shown in Fig. 22 until you hear a clear click. The wash port is on the left side of the mower deck.
- Turn on the water.
- With battery packs attached, insert the safety key, and press the start/stop button for 3 seconds to illuminate the LCD screen.



7. Pull the PTO switch to start the mower cutting blades and adjust the blade speed to the highest. Refer to section “**Blade-Speed Adjustment Button**” in this manual.
8. Flush water under the deck for approximately one minute.
9. Turn off the blade motors by pushing the PTO switch downward.
10. Turn off the water and remove garden hose and quick-coupler from wash port.
11. Remove the quick-coupler from the garden hose and store it in a safe location for future use.
12. Turn off the mower completely. See section “**STOPPING THE ELECTRIC ZERO TURN MOWER**”.

NOTE: When cleaning the deck using the wash port, the mower can be either in mulching or side discharging mode.

NOTE: If the mower is not clean after one wash cycle, repeat the process until the deck is thoroughly cleaned.

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 pressure (Please see section “**CHECKING THE TIRE PRESSURE**” in this manual). Over- or under-inflated tires can affect the appearance of the cut grass, and proper inflation of the tires may be all that is needed to resolve uneven cut 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 CUTTING 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.

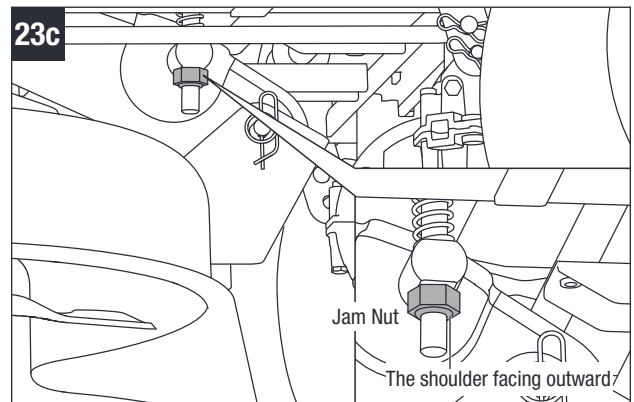
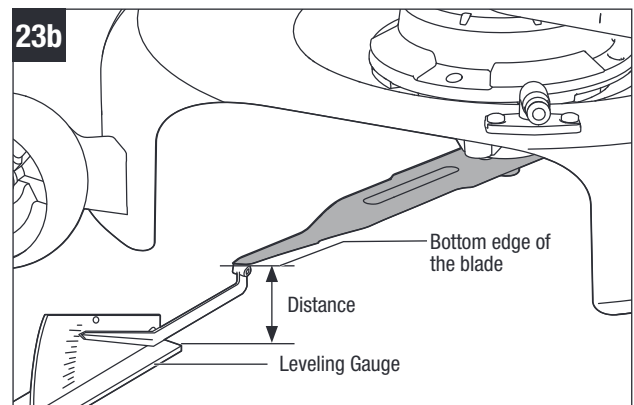
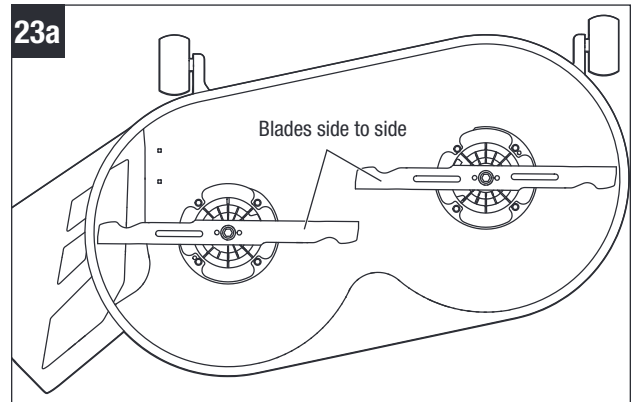
NOTE: The deck must be adjusted slightly higher in the rear.

Required tools (not supplied): one 13/16” (21 mm) open-end wrench, one 23/32” (18 mm) open-end wrench or adjustable wrench; one leveling gauge.

To make side-to-side adjustment

1. Turn off the mower, engage the parking brake, and remove the batteries.
2. Position both blades so that the ends point toward the sides of the mower (Fig. 23a).
3. On the outside edge of each blade, measure the distance from the bottom edge of the side of the blade to the ground (Fig. 23b). If the distance between the two sides is greater than $13/64$ in (5 mm), side-to-side adjustment is necessary.
4. On the side you wish to adjust, use a $13/16$ in (21 mm) open-end wrench or adjustable wrench (not supplied) to adjust the one jam nut on the back of the mower (Fig. 23c).
5. Measure again. Continue to adjust and measure until the difference between the distances on each side is within $13/64$ in (5 mm).
6. Proceed to front-to-back adjustment or retighten the nuts.

NOTE: in case of the jam nut on the back is removed from the tool accidentally, remount it with the shoulder of the jam nut facing outward. No requirement for the two nuts on the suspension linkage.



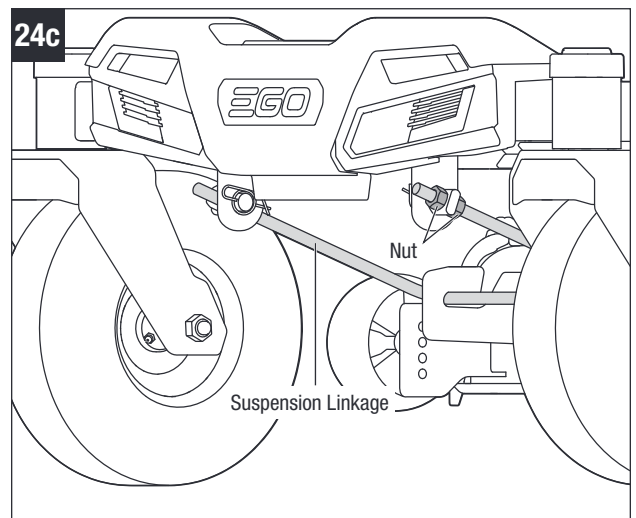
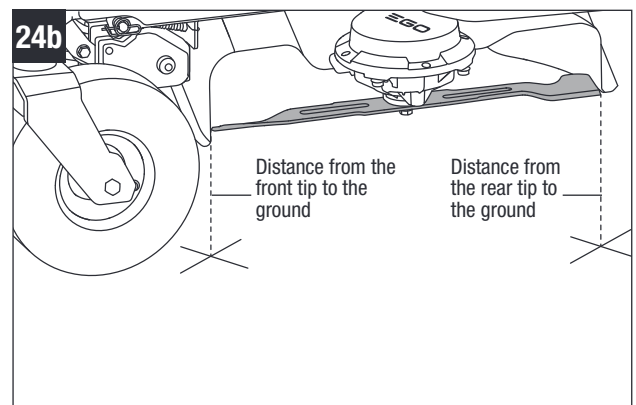
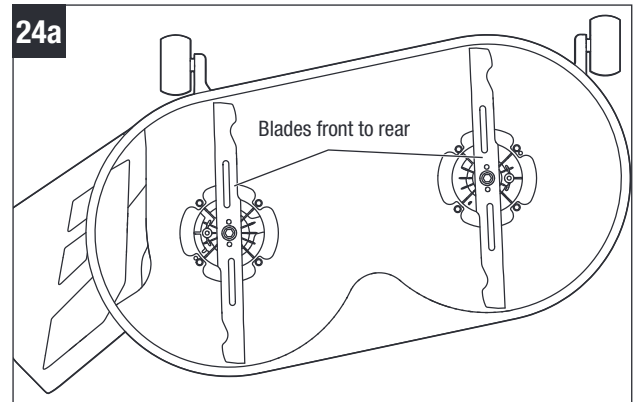
To make front-to-rear adjustment

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

1. Position both blades so that the ends point toward the front and back of the mower (Fig. 24a).
2. Measure the distance from the tip of one blade to the ground (see Fig. 24b). For best results, the front tip of the blade should be from $\frac{5}{64}$ in to $\frac{25}{64}$ in (2 mm to 10 mm) lower than the rear tip.
3. If front-to-rear adjustment is needed, use a $\frac{23}{32}$ in (18 mm) open-end wrench or adjustable wrench (not supplied) to adjust the four nuts on the suspension linkage (two for each side) (Fig. 24c).

NOTICE: Make sure to turn the corresponding nuts on both sides equally to avoid altering the side-to-side measurement.

4. Measure again to verify that the front tip is now $\frac{5}{64}$ in to $\frac{25}{64}$ in (2 mm to 10 mm) lower than the rear tip. If not, continue to adjust and measure until they are.
5. Retighten the nuts. The recommended torque for the nuts is 38-42 ft-lb (52-57 N.m).

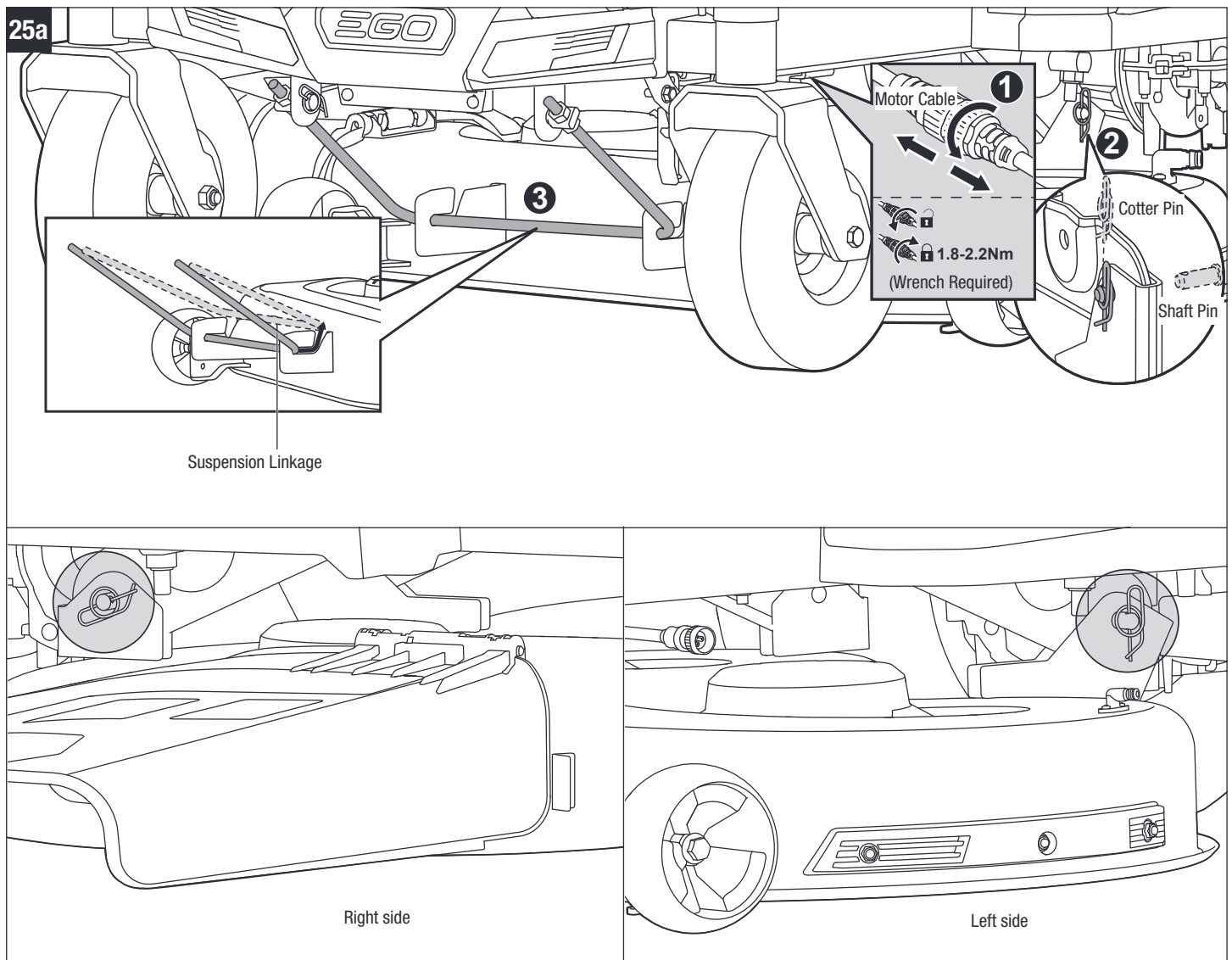


REMOVING THE MOWER DECK

⚠ WARNING: Make sure that the mower is properly secured and the parking brake is set before proceeding.

Follow below steps to remove the mower deck from the product first and then perform maintenance.

1. Adjust the deck-height-adjustment lever to the lowest cutting height position.
2. Disconnect both blade motor cables.
3. Place a rug or a mat (similar in size to that of the deck) under the deck to prevent the damage to the deck.
4. Remove the cotter pins and push the shaft pins out. Save both sets for deck re-assembly.
5. Push the deck forward (towards the front wheels) and rotate the suspension linkage counterclockwise to release it from the deck hooks (Fig. 25a).
6. Push the deck sideways and remove it from under the mower (Fig. 25b).



7. Clean the deck or replace the blade as directed in “REPLACING THE CUTTING BLADES” in this manual.
8. When the cleaning or blade replacement is complete, reassemble the deck onto the mower in the reverse order.

NOTICE: Reconnect the motor cables, ensuring that the left motor cable is connected to the left motor while the right motor cable to the right motor. There are “left” or “right” indicated on the cables.

NOTICE: Make sure both motor cables are connected to the motor with proper torque. The recommended torque is 1.3-1.6 ft-lb (1.8 - 2.2 Nm).

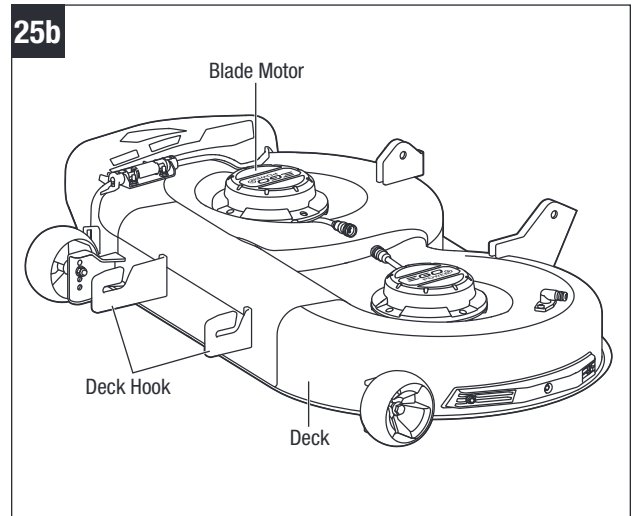
REPLACING THE CUTTING BLADES

⚠ 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. Always remove the safety key and battery packs when servicing or transporting the mower.

Required tools:

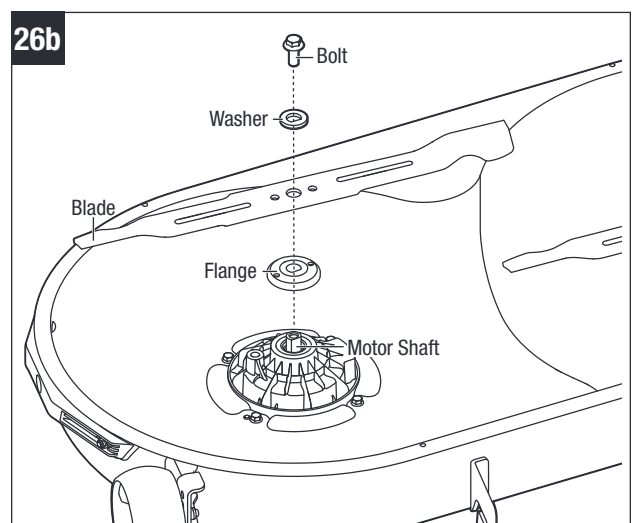
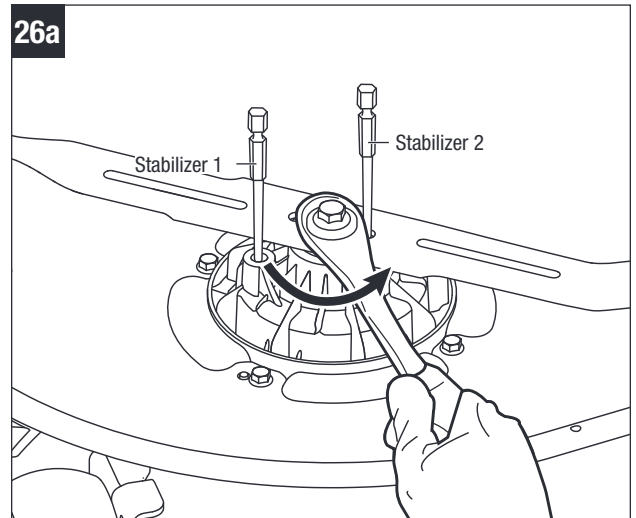
- Torque wrench with 9/16 in (14 mm) socket (not supplied)
- Screwdriver or metal rod 5/16 in (8 mm) or a little less in diameter (not supplied)
- Screwdriver or metal rod 1/4 in (6.35 mm) or a little less in diameter (not supplied)

Tools that make life easier (not supplied): Impact wrench with 9/16 in (14 mm) socket make removing the blade bolts much easier.



To remove the cutting blade

1. Turn off the mower, engage the parking brake, and remove the batteries.
2. Remove the mower deck as directed in the section **“REMOVING THE MOWER DECK”** in this manual.
3. Flip the deck on the ground so that the blades face upward.
4. While wearing protective gloves, place a screwdriver or metal rod with diameter a little less than 5/16 in (8 mm) into the fixing hole in the motor to act as a stabilizer. Place another metal rod with diameter a little less than 1/4 in (6.35 mm) (e.g., a bit) into the aligned hole in the blade and the flange to act as another stabilizer (Fig. 26a).
5. Use the 14 mm wrench (supplied) to turn the blade bolt counterclockwise to loosen it (Fig. 26a).
6. While wearing protective gloves, remove the bolt, washer and the blade (Fig. 26b). The flange can be left on the motor shaft.



To install the cutting blade

NOTICE: To re-install or replace the blade, make sure that all parts are replaced in the exact order in which they are removed (Fig. 26b).

1. If the flange is removed during blade removing, align it with the motor shaft first and then assemble it into place.
2. While wearing protective gloves, position the blade on the flange with the surface stating “THIS SIDE FACING GRASS” facing toward outside (Fig. 27a).
3. Align the washer with the motor shaft and mount it onto the motor shaft.
4. Mount the bolt into the motor shaft. Hand tighten the bolt clockwise.
5. Move the blade by hand to align the two holes in the blade with the two holes in the flange (Fig. 27a).
6. Place a metal rod with diameter a little less than 1/4 in (6.35 mm) (e.g., a bit) into the aligned hole in the blade and the flange to act as a stabilizer. Place another screwdriver or metal rod with diameter a little less than 5/16 in (8 mm) into the fixing hole in the motor to act as a stabilizer (Fig. 27b).
7. Use a 9/16 in (14 mm) torque wrench to tighten the bolt clockwise. The recommended torque for the blade bolt is 36-41 ft-lb (50-55 Nm).
8. Repeat the steps with the second blade, if needed.
9. Reassemble the deck onto the mower as directed in “**REMOVING THE MOWER DECK**” in this manual.

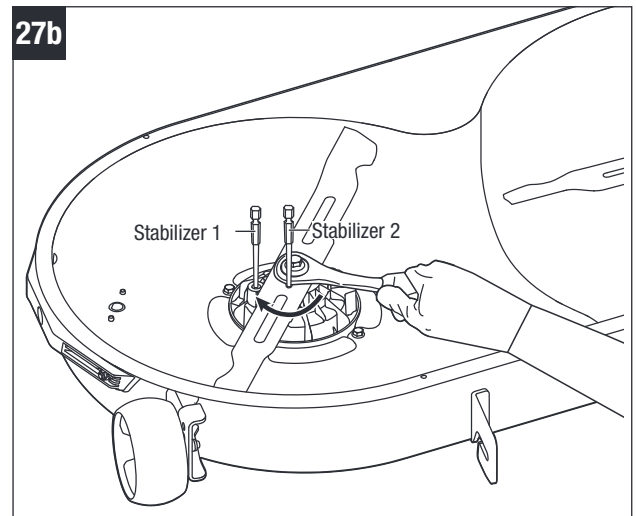
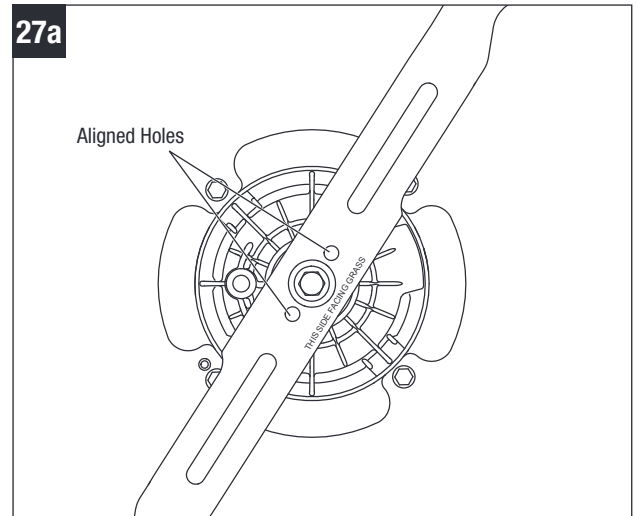
⚠ WARNING: Ensure that the blade is properly seated and the blade bolt is tightened to the torque specifications above. Failure to properly attach the blade could cause it to come loose and result in possible serious personal injury.

SHARPENING THE CUTTING BLADE

⚠ 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. Always remove the safety key and battery packs when servicing or transporting the mower.

⚠ 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: A worn, cracked, or damaged blade can break, and pieces of the damaged blade can become dangerous projectiles. Thrown objects can cause serious injury. Inspect the blade regularly, and do not operate the mower with a worn or damaged blade.



NOTICE: Keep the blade sharp for best mower performance. A dull blade does not cut grass cleanly or mulch properly. A dull blade can be sharpened, but a blade that is excessively worn, bent, cracked, or otherwise damaged must be replaced. A worn or damaged blade can break, causing blade pieces to be thrown from the mower. If the blades are found to be bent, take the lawn mower to an authorized EGO service center for inspection. Never attempt to straighten a bent blade by heating, or weld a cracked or broken blade.

Sharpening frequency

Sharpening the cutting blade twice during a mowing season is usually sufficient under normal circumstances. Sand causes the blade to dull quickly; if your lawn has sandy soil, more frequent sharpening may be required.

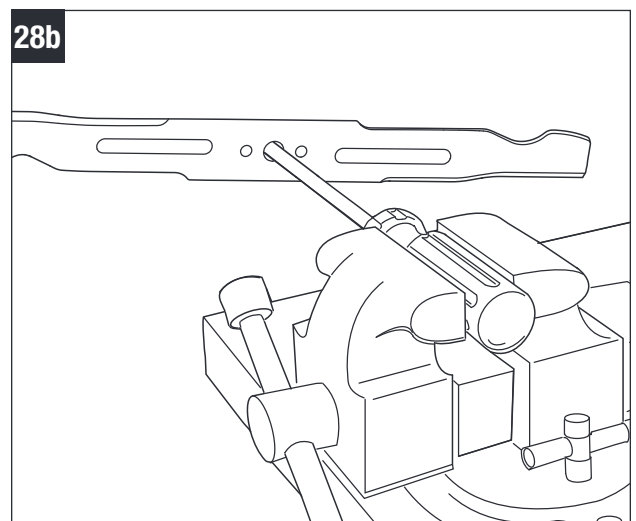
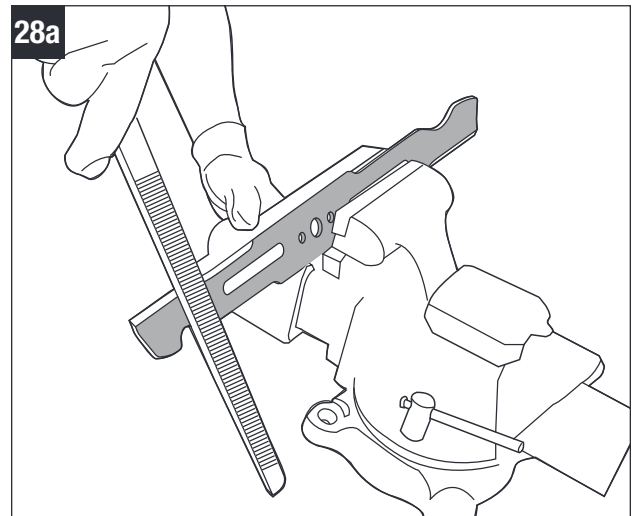
When sharpening the cutting blade

1. Make sure that the blade remains balanced.
2. Sharpen the cutting blade at the original cutting angle.
3. Sharpen the cutting edges on both ends of the blade, removing an equal amount of material from each end.

Sharpening blade in a vise

1. Remove the blade from the mower (please see section “REPLACING THE CUTTING BLADE” in this manual).
2. Secure the blade in a vise (Fig. 28a).
3. Wear proper eye protection and gloves and be careful not to cut yourself.
4. Carefully file the cutting edges of the blade with a fine-tooth file or sharpening stone, maintaining the original cutting edge angle.
5. To check the blade balance: clamp a nail or a screwdriver with a round shank in the horizontal position. Position the blade so that the nail or round shank of the screwdriver supports the blade through its center hole. Balance the blade horizontally. If either end of the blade rotates downward, remove some metal from the heavy (or lower) end until the blade is balanced. It is balanced when neither end drops (Fig. 28b).
6. Replace the blade and mount it onto the mower securely (please see section “REPLACING THE CUTTING BLADE” in this manual).

⚠ WARNING: An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to the mower and could break, causing personal injury.



CHECKING THE TIRE PRESSURE

Required tools (not supplied): Tire pressure gauge; air compressor / inflator or heavy-duty bicycle pump.

Check the air pressure in all tires before use. Improper air pressure will affect handling, steering response, traction, tire life, level cutting, and operator comfort. Be sure tires are inflated to the pressure shown below.

It is important for level mowing that all tires have the correct amount of air pressure. If the mower is not tracking straight, please check the air pressure of the wheels first.

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

Recommended Pressure	Front Wheel	Rear Wheel
	32 PSI (222.1 kPa)	16.8 PSI (115.8 kPa)

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

⚠ WARNING: Maintaining correct air pressure in the tires is very important. Too little pressure could allow the tire to rotate off the wheel rim. Too much pressure could cause the tire to burst. Failure to maintain correct air pressure in the tires could cause problems with mower operation and stability, causing serious personal injury.

REPLACING THE WHEELS

Required tools (not supplied):

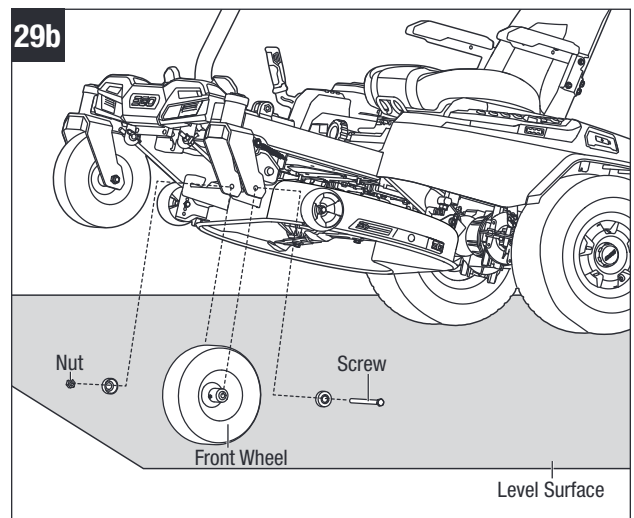
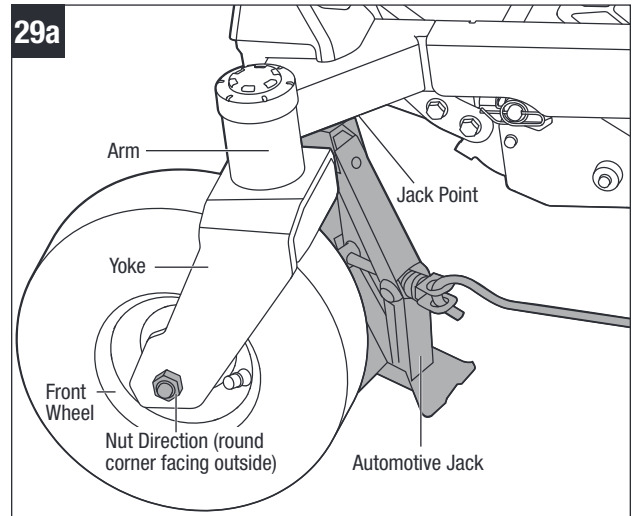
- Automotive jack
- Jack Stand
- Wheel chocks
- Two 18 mm open-end wrenches or adjustable wrenches.
- Torque wrench with 18 mm socket
- Flat-blade screwdriver

⚠ DANGER: If raising the mower, make sure that the mower is properly secured and the parking brake is set before proceeding. Failure to properly secure the mower could cause it to fall, resulting in death or possible serious personal injury.

To replace the front wheel

Check the wheels at 200-hour intervals. Check that the front wheels turn freely. If a wheel does not turn freely, replace it.

1. Raise the arm of the wheel that requires replacement using an automotive jack. Use only recommended jack point shown in Fig. 29a.
2. Use the 18 mm wrench (not supplied) to stabilize the screw first and then loosen and remove the nut on the other side with another 18 mm wrench.
3. Pull the wheel in a forward or downward direction, out of the yoke (Fig. 29b). Replace the front wheel.
4. When installing the new wheel, take care of the nut direction and tighten it with a torque wrench (see Fig. 29a). The recommended torque for the front wheel nut is 66-70 ft-lb (90-95 Nm).



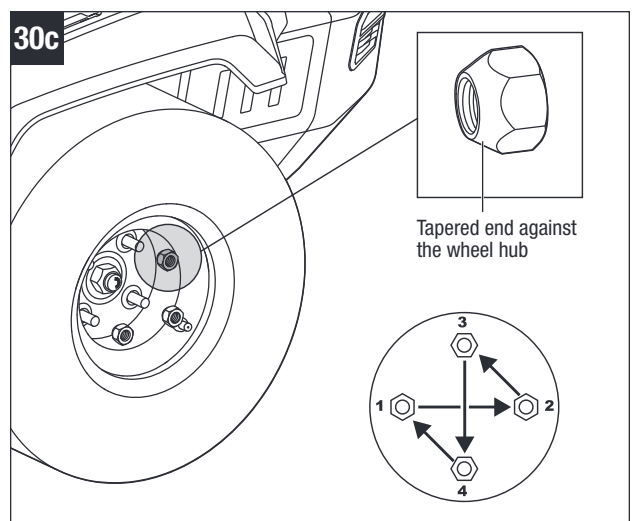
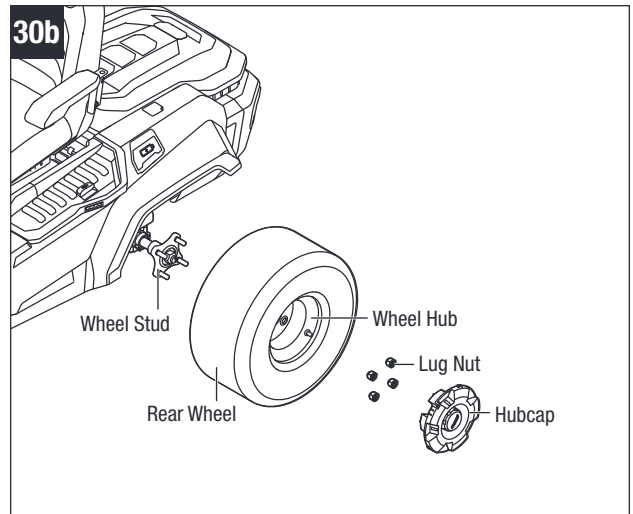
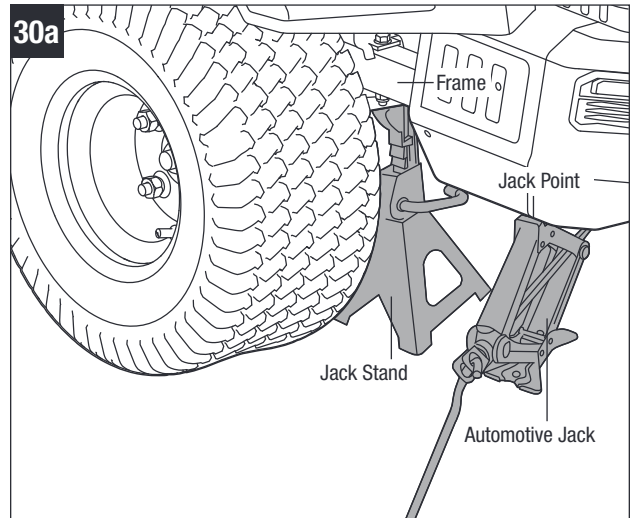
To replace the rear wheel

The rear wheel for zero turn mower is a driving wheel. When it is damaged, mower performance will be greatly affected. Replace it immediately.

1. Use a flat-blade screwdriver (not supplied) to pry and remove the hubcap on the rear wheel.
2. Use the 13/16 in (21 mm) socket wrench (not supplied) to loosen the four lug nuts (one turn for each nut).
3. Restrain the movement of front wheels with wheel chocks.
4. Lift the affected side of the mower with an automotive jack at the jack point shown in Fig. 30a.
5. Insert the jack stand underneath the mower's frame. Lower the automotive jack until the mower frame rests on the jack stand.
6. Remove the four lug nuts (M12) on the rear wheel. Check the four lug nuts and if they are in good condition, save them for reassembly. Otherwise, replace them at the same time.
7. Pull the wheel off from the wheel studs. Replace the wheel (Fig. 30b).
8. When securing the new wheel, ensure the proper orientation of the lug nuts – the tapered end against the wheel hub. Finger-tighten the lug nuts (Fig. 30c).
9. Lower the mower by reversing the steps 4 & 5. Tighten the lug nuts in the order shown in Fig. 28b using a torque wrench. The recommended torque for the rear wheel lug nuts is 74-76 ft-lb (101-103 N m).

⚠ WARNING: Particular attention must be given to tightening the wheel nuts, especially the drive-wheel lug nuts. Failure to correctly torque these items may result in the loss of a wheel, which can cause serious damage or personal injury.

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

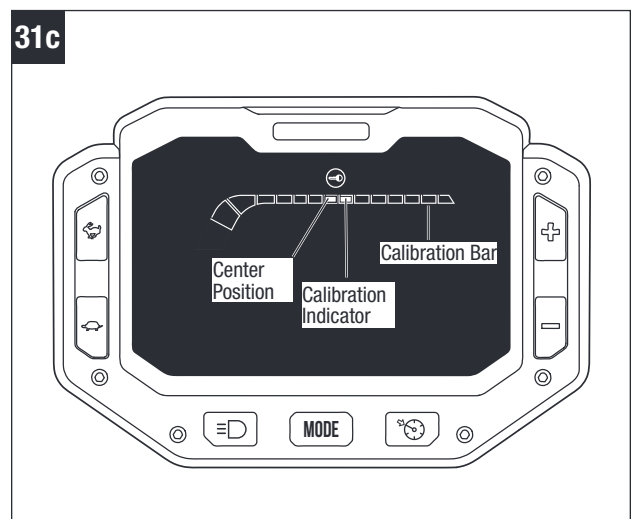
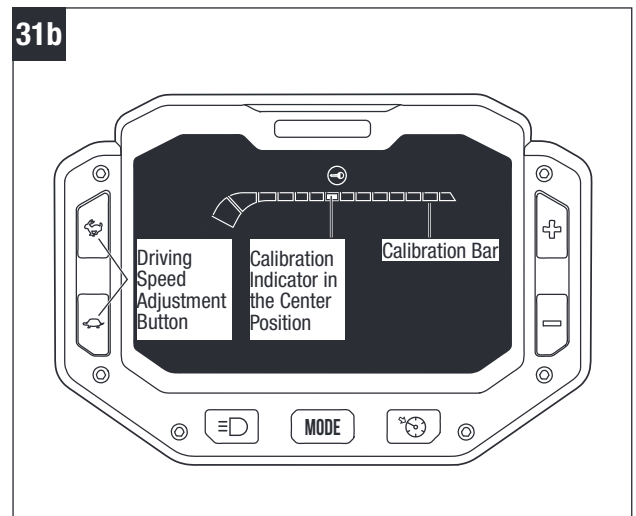
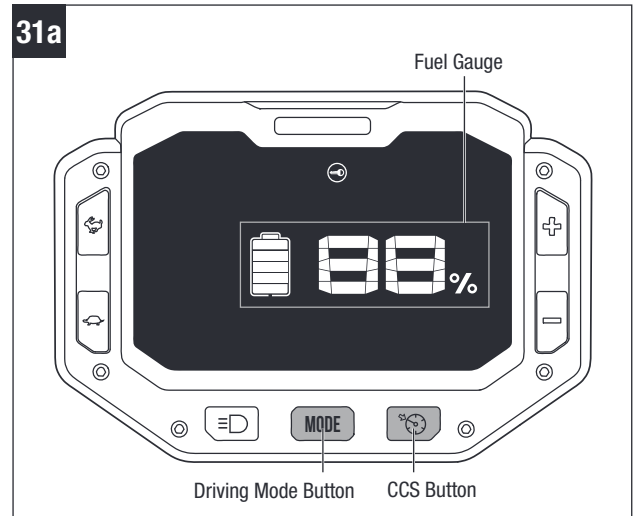


CALIBRATE THE STEERING WHEEL

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 steering wheel as follows:

NOTE: The calibration completed for one of the driving modes (“CONTROL”, “STANDARD”, “SPORT”) maybe not available for the other two modes. Calibrate the steering wheel in each driving mode independently as needed.

1. Insert the battery packs into the battery compartments of the power unit.
2. Set the parking-brake pedal in the braking position.
3. Press the start/stop button briefly and the LCD screen will show the “fuel gauge” (Fig. 31a).
4. Press and hold the driving-mode button and the CCS button simultaneously for more than 3 seconds to enter the calibration interface. The audio indicator will sound once and the LCD screen will show the calibration bar with the calibration indicator in the center position (Fig. 31b).
5. When the mower drives to the left, the right wheel of the mower should be calibrated by briefly pressing the driving speed adjustment button “”. Press once, the calibration indicator will move to the right one grid from center position and will keep flashing (Fig. 31c).
6. When the mower drives to the right, the left wheel of the mower should be calibrated by briefly pressing the driving speed adjustment button “”. Press once, the calibration indicator will move to the left one grid from center position and will keep flashing.
7. When the calibration is finished, press the CCS button to save changes and quit the calibration interface. The audio indicator will sound once to indicate that the calibration is saved successfully. Restart the mower to check whether the mower can drive straight. Otherwise, repeat the above steps until the mower is tracking straight.

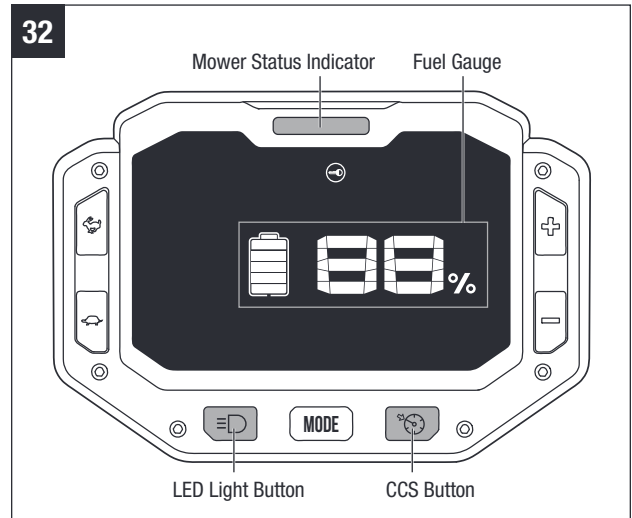


RESETTING THE MOWER TO INITIAL FACTORY SETTING

NOTE: When the resetting is successful, below settings will return to the initial factory setting:

- driving mode
- driving speed
- calibration of the steering wheel
- customized settings from app

1. Insert the battery packs into the battery compartments of the power unit.
2. Set the parking-brake pedal in the braking position.
3. Press the start/stop button briefly and the LCD screen will show the “fuel gauge” (see Fig. 32).
4. Press and hold the LED light button and CCS button simultaneously for more than 5 seconds, the audio indicator will sound once and the mower status indicator over the LCD screen will flash ORANGE. Resetting is successful.



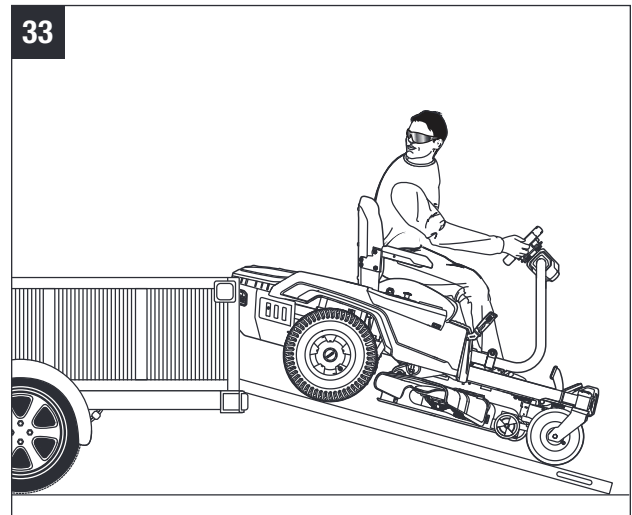
TRANSPORTING THE MOWER

NOTICE: The mower must be transported on the bottom frame at all times! Forklift should never come in direct contact with the mower!

We recommend to keep the bottom frame to facilitate the transportation of the mower later for service.

See “**TRANSPORT**” in this manual for safety instruction before transporting the mower.

1. Park the mower on a level surface.
2. Raise the cutting deck to the highest position.
3. Position and secure full width ramps to the trailer. Full width ramps will minimize the risk of the mower's wheels going off the side of the ramp.
4. Slowly back the mower onto the ramp and into the trailer (Fig. 33).
5. Stop the mower and set the parking-brake pedal.
6. Turn off the start/stop button and remove the safety key and battery packs.
7. Secure the mower as needed, using straps or cables to prevent movement during transport.



STORAGE


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

- Remove the battery packs from the mower and store the batteries in dry location at room temperature.
- Remove the safety key from the mower.
- Thoroughly clean the mower. See section “**CLEANING THE MACHINE**” 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. Do not store it next to corrosive materials, such as fertilizer or rock salt.
- Store the mower in a covered, enclosed space, out of the reach of children.

NOTICE: Plastic coverings trap moisture around the mower, which causes rust and corrosion.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The electric zero turn mower fails to drive when the accelerator pedal is depressed.	<ul style="list-style-type: none"> The combined Ah of the inserted batteries is less than 15Ah. 	<ul style="list-style-type: none"> In order to start this mower, EGO batteries totaling 15Ah (2 X BA4200/BA4200T) or more are required. For best performance, we recommend use of EGO batteries that total 30Ah or more.
	<ul style="list-style-type: none"> The parking-brake pedal is set in the braking position. 	<ul style="list-style-type: none"> Fully depress the parking-brake pedal to release it from the braking position.
	<ul style="list-style-type: none"> The both left and right paddles are not briefly pulled toward the operator to make the mower status indicator shine green when starting the mower. 	<ul style="list-style-type: none"> Pull BOTH left and right paddles toward the operator simultaneously and then release. The mower status indicator will shine green, which means the mower is ready to start.
	<ul style="list-style-type: none"> The operator is not sitting on the seat. 	<ul style="list-style-type: none"> Only when the operator is properly sitting on the seat, can he or she operate the mower.
	<ul style="list-style-type: none"> The seat safety interlock system is not connected properly. 	<ul style="list-style-type: none"> Remove the battery from the mower and disassemble the seat in the reverse order of the instructions in section “INSTALLING THE SEAT” in this manual to make sure that the cable plug is properly connected to the socket on the bottom of the seat. Reassemble the seat and follow the instructions in “STARTING THE ELECTRIC ZERO TURN MOWER” to restart the mower to see if the mower can be started. If not, contact a qualified service technician for repair.
	<ul style="list-style-type: none"> Under extreme cold weather, the driving function may not start successfully due to the low temperature protection. 	<ul style="list-style-type: none"> Always store the mower and battery in warm environment. Restart the mower when it is warmed up. Please do not make repeated attempts under extreme cold weather which may damage the machine. Recommended operating temperature is 32°F–104°F (0°C–40°C).
	<ul style="list-style-type: none"> The travel path of the accelerator pedal is clogged with debris. 	<ul style="list-style-type: none"> Check and remove the debris.
	<ul style="list-style-type: none"> Failure of mechanical or electronic components of the accelerator pedal. 	<ul style="list-style-type: none"> Contact a qualified service technician for repair.

PROBLEM	CAUSE	SOLUTION
<p>The electric zero turn mower stops driving.</p>	<ul style="list-style-type: none"> Left / Right paddle requires a “reset”. 	<ul style="list-style-type: none"> Pull the left/right paddles toward the operator and release them. The mower is ready for driving when the status indicator shines green.
	<ul style="list-style-type: none"> Failure of electronic components of the accelerator pedal. 	<ul style="list-style-type: none"> Contact a qualified service technician for repair.
	<ul style="list-style-type: none"> The seat safety interlock system got disconnected during driving on a rough terrain. 	<ul style="list-style-type: none"> Remove the battery from the mower and disassemble the seat in the reverse order of the instructions in section “INSTALLING THE SEAT” in this manual to make sure that the cable plug is properly connected to the socket on the bottom of the seat. Reassemble the seat and follow the instructions in “STARTING THE ELECTRIC ZERO TURN MOWER” to restart the mower to see if the mower can be started. If not, contact a qualified service technician for repair.
	<ul style="list-style-type: none"> The operator’s weight is not evenly distributed on the seat. The weight of the operator on the seat must be at least 44 lbs (20 kg) for the seat safety interlock system to function properly 	<ul style="list-style-type: none"> Sit on the seat properly, pull left/right or both paddles toward the operator and release them, then the mower is ready for driving. Disconnect and attach the battery pack again if necessary.
	<ul style="list-style-type: none"> The parking-brake pedal is depressed to slow down the driving speed. Once the parking-brake pedal is depressed enough but not to the parking position, the mower will stop. 	<ul style="list-style-type: none"> Follow the instructions in “STARTING THE ELECTRIC ZERO TURN MOWER” to restart the mower.
<p>The driving mode cannot be adjusted during driving.</p>	<ul style="list-style-type: none"> This is a feature of the electric zero turn mower for safe driving. 	<ul style="list-style-type: none"> The function will activate only when the mower wheels are stopped.
<p>The electric zero turn mower fails to start the blades when the PTO switch is activated.</p> <p> PTO Switch icon blinks</p>	<ul style="list-style-type: none"> The combined Ah of the inserted batteries is less than 15Ah. 	<ul style="list-style-type: none"> In order to start this mower, EGO batteries totaling 15Ah (2 X BA4200/BA4200T) or more are required. For best performance, we recommend use of EGO batteries that total 30Ah or more.
	<ul style="list-style-type: none"> The PTO switch was not pushed down when the mower was turned off last time. 	<ul style="list-style-type: none"> Push the PTO switch down and then up to restart the blade motors.
	<ul style="list-style-type: none"> The mower is overloaded at the moment the blades are starting to rotate, triggering the motor self-protection. 	<ul style="list-style-type: none"> Start the mower grass cutting in lower blade speed first and do not accelerate the blade speed until the blades are rotating successfully.
	<ul style="list-style-type: none"> Under extreme cold weather, the blade motor may not start successfully due to the low temperature protection. 	<ul style="list-style-type: none"> Always store the mower and battery in warm environment. Restart the mower when it is warmed up. Please do not make repeated attempts under extreme cold weather which may damage the machine. Recommended operating temperature is 32°F–104°F (0°C–40°C).
	<ul style="list-style-type: none"> The blade interferes with the deformed mower deck 	<ul style="list-style-type: none"> Call EGO Customer Service Center

PROBLEM	CAUSE	SOLUTION
The blades stop working during grass cutting.	<ul style="list-style-type: none"> ■ The mower is overloaded. 	<ul style="list-style-type: none"> ■ Raise the deck cutting height or slow down the driving speed to reduce the load of the mower.
	<ul style="list-style-type: none"> ■ The mower deck is clogged with grass and debris. 	<ul style="list-style-type: none"> ■ Clean the mower deck and make certain that the blades have freedom of movement.
	<ul style="list-style-type: none"> ■ The mower is overheated. 	<ul style="list-style-type: none"> ■ Reduce the load of the mower, by raising the deck cutting height or slowing down the blade/driving speed and allow the mower to cool.
	<ul style="list-style-type: none"> ■ The battery pack(s) in the mower's battery compartment is overheated, resulting in combined Ah rating of all inserted batteries to be below 15Ah. 	<ul style="list-style-type: none"> ■ 1. The mower can continue working if the combined battery Ah rating, overheated battery excluded, is equal to or more than 15Ah. Once the overheated battery returns to normal temperature, it will join in powering the mower immediately. ■ 2. If the combined battery Ah rating is less than 15Ah, the mower will not work until more battery packs are inserted into the vacant battery compartments. ■ 3. Reduce the load of the mower by raising the deck cutting height or slowing down the mowing when resuming operation.
	<ul style="list-style-type: none"> ■ The mower is in Limp-Home mode. 	<ul style="list-style-type: none"> ■ When the mower is in Limp - Home mode, the blades are automatically switched into low rotation speed. The operator should stop working and drive to the battery charging area as soon as possible.
	<ul style="list-style-type: none"> ■ The mower is hit by a foreign object, resulting in motor self-protection. 	<ul style="list-style-type: none"> ■ Push the PTO switch down and then up to restart the blade motors.
The audio indicator continues sounding.	<ul style="list-style-type: none"> ■ The mower is in Limp-home mode and the blades are not turned off. 	<ul style="list-style-type: none"> ■ Push the PTO switch down to turn off the blade motors. The audio indicator will stop sounding when the blade motors are turned off.
	<ul style="list-style-type: none"> ■ The mower stops driving on a slope and the operator is off the seat without setting the parking-brake pedal at the braking position. 	<ul style="list-style-type: none"> ■ Set the parking-brake pedal in the braking position before leaving the mower on the slope.
The battery indicators are still on when the mower is turned off.	<ul style="list-style-type: none"> ■ When the mower is turned off on level ground without removing the battery pack(s) from the mower, the battery indicators will remain illuminated for 60 minutes. 	<ul style="list-style-type: none"> ■ No action is needed. The battery indicators will go off after 60 minutes has passed.
	<ul style="list-style-type: none"> ■ When the mower is turned off on a slope without setting the parking-brake at the braking position, the battery indicators will keep on until the battery charge is depleted. The audio indicator keeps sounding at the same time. 	<ul style="list-style-type: none"> ■ Set the parking-brake pedal in the braking position before leaving the mower on the slope.
The LCD screen fails to be illuminated with all icons on.	<ul style="list-style-type: none"> ■ Start/stop button has been pressed for less than 3 seconds. 	<ul style="list-style-type: none"> ■ The LCD screen will only display the "fuel gauge" when the start/stop button is pressed briefly.
		<ul style="list-style-type: none"> ■ The LCD screen will turn on after the start/stop button has been pressed for 3 seconds.

PROBLEM	CAUSE	SOLUTION
The mower cuts unevenly, with significant height difference front to rear.	<ul style="list-style-type: none"> ■ The blades are dull. 	<ul style="list-style-type: none"> ■ Sharpen or replace the cutting blade as instructed in this manual.
	<ul style="list-style-type: none"> ■ The blades are bent. 	<ul style="list-style-type: none"> ■ Replace the bent cutting blade following the instructions in section "REPLACING THE CUTTING BLADES".
	<ul style="list-style-type: none"> ■ The mower deck is not leveled, resulting in different cutting blade height. 	<ul style="list-style-type: none"> ■ Level the mower deck following the instructions in section "LEVELING THE MOWER DECK".
The actual grass cutting height is not aligned with the claimed height.	<ul style="list-style-type: none"> ■ The mower deck nuts are loosened on the suspension linkage (see Fig. 21c). 	<ul style="list-style-type: none"> ■ Follow the instructions in section "LEVELING THE MOWER DECK" to make correct front-to-rear adjustment for the mower deck and securely tighten the four nuts on the suspension linkage (two for each side).
	<ul style="list-style-type: none"> ■ The mower deck is damaged or seriously worn. 	<ul style="list-style-type: none"> ■ Follow the instructions in section "REMOVING THE MOWER DECK" to have mower deck replaced.
The mower does not mulch properly.	<ul style="list-style-type: none"> ■ Wet grass clippings are sticking to the underside of the deck. 	<ul style="list-style-type: none"> ■ Wait until the grass dries before mowing.
	<ul style="list-style-type: none"> ■ The mower is set to cut too much grass at once. 	<ul style="list-style-type: none"> ■ Raise the deck cutting height.
Excessive vibration.	<ul style="list-style-type: none"> ■ The cutting blades are loose. 	<ul style="list-style-type: none"> ■ Tighten the blade bolt to the recommended torque 36-41 ft-lb (50-55 Nm).
	<ul style="list-style-type: none"> ■ The blades are bent. 	<ul style="list-style-type: none"> ■ Replace the bent cutting blade following the instructions in section "REPLACING THE CUTTING BLADES".
	<ul style="list-style-type: none"> ■ The mower deck is not leveled. 	<ul style="list-style-type: none"> ■ Level the mower deck following the instructions in section "LEVELING THE MOWER DECK".
	<ul style="list-style-type: none"> ■ The mower deck nuts are loosened on the suspension linkage (see Fig. 21c). 	<ul style="list-style-type: none"> ■ Use a 23/32 in (18mm) open-end wrench (not supplied) to tighten the four nuts on the suspension linkage (two for each side).
	<ul style="list-style-type: none"> ■ The mower is set to cut too much grass at once. 	<ul style="list-style-type: none"> ■ Raise the deck cutting height.
There are grass or debris remaining on the ground after mowing.	<ul style="list-style-type: none"> ■ The mower is set to cut too much grass at once when the grass is tall. 	<ul style="list-style-type: none"> ■ Begin with a high cutting height and reduce it until the desired mowing result is attained. Grass over 6 inches (152 mm) tall should be mowed twice, at successively lower cutting heights.
	<ul style="list-style-type: none"> ■ The grass is wet. 	<ul style="list-style-type: none"> ■ Do not mow when the grass is wet until the grass dries.
	<ul style="list-style-type: none"> ■ The driving speed is high. 	<ul style="list-style-type: none"> ■ Slow down the driving speed.
	<ul style="list-style-type: none"> ■ The blade speed is low. 	<ul style="list-style-type: none"> ■ Increase the blade speed gradually.
Short run time of the mower with included battery.	<ul style="list-style-type: none"> ■ Lawn terrain, grass conditions, cutting-height setting, driving speed, blade speed, etc. will greatly affect the running time. 	<ul style="list-style-type: none"> ■ Refer to chapter "TIPS TO INCREASE THE RUN TIME" for instructions.

PROBLEM	CAUSE	SOLUTION
The mower is not tracking straight.	<ul style="list-style-type: none"> ■ The tire pressures for the left and right rear wheels are different. 	<ul style="list-style-type: none"> ■ Check and adjust the air pressure in both rear wheel tires, according to the recommendation in section “CHECKING THE TIRE PRESSURE” in this manual.
	<ul style="list-style-type: none"> ■ The driving speed for the left and right rear wheels are different. 	<ul style="list-style-type: none"> ■ Calibrate the steering wheel following the instructions in section “CALIBRATE THE STEERING WHEEL”.
The parking-brake pedal cannot not be released from the braking position or is slow to spring back.	<ul style="list-style-type: none"> ■ There may be debris or dirt getting inside the parking-brake pedal. 	<ul style="list-style-type: none"> ■ Open the parking-brake pedal box to thoroughly clean the box inside and close it. Reset the parking-brake pedal to see whether the problem is solved. If not, contact a qualified service technician for repair.
The mower cannot be charged via charging port with the mower status indicator shining solid red.	<ul style="list-style-type: none"> ■ The plug of the charger is not correctly inserted into the charging port on the mower. 	<ul style="list-style-type: none"> ■ Reconnect the charger plug to see whether the mower can be charged normally.
	<ul style="list-style-type: none"> ■ There is no power in the wall outlets. 	<ul style="list-style-type: none"> ■ No action is needed. Wait until the power recovers.
	<ul style="list-style-type: none"> ■ Charger malfunction. 	<ul style="list-style-type: none"> ■ Contact a qualified service technician for inspection and have charger repaired if needed.
	<ul style="list-style-type: none"> ■ The charger port on the mower is faulty. 	<ul style="list-style-type: none"> ■ Contact a qualified service technician for repair.
The charging time via the mower charging port is too long.	<ul style="list-style-type: none"> ■ The charger is not suitable. 	<ul style="list-style-type: none"> ■ Use EGO charger CHV1600/CHV1600-FC for charging the electric zero turn mower directly.
The battery cannot be fully charged via the mower charging port.	<ul style="list-style-type: none"> ■ Firmware bug of the mower or the battery or the charger failure. 	<ul style="list-style-type: none"> ■ Reset the charger by unplugging the charger and waiting for longer than 1 min. Then reconnect the plug to the power supply. If this does not solve the problem, call EGO Customer Service Center.
The mower cannot be started after cleaning.	<ul style="list-style-type: none"> ■ Improper cleaning, such as water getting on the electric components, LCD screen etc. 	<ul style="list-style-type: none"> ■ Follow the instructions in section “GENERAL MAINTENANCE” to clean the mower correctly.
		<ul style="list-style-type: none"> ■ If the mower caught in rain accidentally, leave it for over 12 hours to dry or use compressed air to dry it.
The mower deck gets clogged fast.	<ul style="list-style-type: none"> ■ The mower deck was not properly cleaned after previous use. 	<ul style="list-style-type: none"> ■ Clean the mower deck after each use, following the section “USING WASH PORT TO CLEAN MOWER DECK”.
The mower easily loses traction when climbing up on the slope.	<ul style="list-style-type: none"> ■ The tires of the rear wheels are worn. 	<ul style="list-style-type: none"> ■ Seek local service to replace the wheel tires or when the wheel itself is damaged replace the rear wheel following the instructions in section “REPLACING THE WHEELS”.
	<ul style="list-style-type: none"> ■ Mowing on a steep slope. 	<ul style="list-style-type: none"> ■ The mower should not be used to mow slopes steeper than 15 degrees.
When the mower is stopped on a slope with the parking-brake pedal pressed, the mower can roll down the slope.	<ul style="list-style-type: none"> ■ The brake components are excessively worn due to improper operation of the mower. 	<ul style="list-style-type: none"> ■ Contact a qualified service technician for repair.
There is no water coming from the wash port when attempting to wash the deck.	<ul style="list-style-type: none"> ■ The wash-port quick coupler is not properly mounted onto the wash port. 	<ul style="list-style-type: none"> ■ Re-attach the wash-port quick coupler until you hear a clear click after firmly pushing. If it does not work, call EGO Customer Service Center.

PROBLEM	CAUSE	SOLUTION
An abnormal sound is heard when manually pushing the mower without starting it.	<ul style="list-style-type: none"> ■ The sound comes from the magnets inside the driving motor. 	<ul style="list-style-type: none"> ■ It is normal and no action is needed.
The steering wheel cannot be rotated.	<ul style="list-style-type: none"> ■ The steering wheel assembly is clogged with debris. 	<ul style="list-style-type: none"> ■ Check and remove the debris.
The mower does not turn left/right when the steering wheel is rotated.	<ul style="list-style-type: none"> ■ Failure of electronic or mechanical components. 	<ul style="list-style-type: none"> ■ Contact a qualified service technician for repair.
The mower fails to stop when releasing the accelerator pedal.	<ul style="list-style-type: none"> ■ The return path of the accelerator pedal is clogged with debris. 	<ul style="list-style-type: none"> ■ Check and remove the debris.
	<ul style="list-style-type: none"> ■ The CCS button is pressed unintentionally while driving. The mower is in cruise-control mode 	<ul style="list-style-type: none"> ■ Check if the CCS icon is illuminated on the LCD screen, and exit the CCS as necessary. Refer to chapter “USING CRUISE CONTROL (CCS)”
The CCS function cannot be activated or turned off.	<ul style="list-style-type: none"> ■ The CCS button is not pressed properly. 	<ul style="list-style-type: none"> ■ Press the CCS button until the CCS icon is illuminated on the LCD screen, or disappears from the LCD screen.
The mower fails to drive reverse when left/right paddle(s) is pulled toward the operator.	<ul style="list-style-type: none"> ■ The mower status indicator does not show green and the mower is not ready for driving. 	<ul style="list-style-type: none"> ■ Follow the section “STARTING THE ELECTRIC ZERO TURN MOWER” to make the mower status indicator show green and mower is ready for driving.
	<ul style="list-style-type: none"> ■ The left/right paddle(s) is not pull toward the operator properly. 	<ul style="list-style-type: none"> ■ Pull left paddle or right paddle or both paddles simultaneously toward the operator until a “click” sound is heard.
	<ul style="list-style-type: none"> ■ The left/right paddle(s) is not kept pulled toward the operator. 	<ul style="list-style-type: none"> ■ To drive in reverse, at least one of the paddles has to be kept pulled toward the operator.
	<ul style="list-style-type: none"> ■ The left/right paddle(s) is broken. 	<ul style="list-style-type: none"> ■ Contact a qualified service technician for repair.

FAULT CODE & MOWER STATUS INDICATOR REFERENCE

LCD Display	Description	Fault code on LCD	Mower Status Indicator	Audio Indicator	Cause	Solution
	Safety key icon blinks	n/a	OFF	No	The safety key is not inserted.	Insert the safety key then press and hold the START/STOP button for more than 3 seconds to turn on the mower.
					Key Control Panel Box Assembly is broken.	Have repairs performed by a qualified service technician.
	The icon of a certain battery compartment blinks	n/a	OFF	No	A certain battery during discharging is over-current.	No action is needed. The mower can continue working if the combined battery Ah rating, over-current battery excluded, is equal to or more than 15Ah. Once the over-current battery returns to normal, it will join in powering the mower immediately and the icon will disappear.
	The icon of the empty battery compartment blinks	n/a	OFF	No	Battery capacity is not sufficient to allow the mower to work.	In order to start this mower, EGO batteries totaling 15Ah (2 X BA4200/BA4200T) or more are required. For best performance, we recommend use of EGO batteries that total 30Ah or more.
	The overload indicator blinks	n/a	Flashes red	One beep	The blade motor is overloaded.	Raise the deck cutting height or slow the driving speed to reduce the load of the mower.
					The side discharge chute is clogged with grass and debris.	Clean the side discharge chute after each use.
					There is an interference between the blade and the mower deck.	Call EGO Customer Service Center

LCD Display	Description	Fault code on LCD	Mower Status Indicator	Audio Indicator	Cause	Solution
	The icon of the thermometer blinks.	n/a	OFF	One beep	The mower is overheated.	Reduce the load of the mower by raising the deck cutting height or slowing down the blade/driving speed. Take a break and allow the mower to cool.
					The mower is too cold.	Follow the instructions in the section “ COLD WEATHER OPERATION ”.
	The temperature icon and the exact occupied battery compartment blink at the same time.	n/a	OFF	No	The battery pack in the corresponding Numbered battery compartment is overheated.	<ol style="list-style-type: none"> 1. The mower can continue working if the combined battery Ah rating, overheated battery excluded, is equal to or more than 15Ah. Once the overheated battery returns to normal temperature, it will join in powering the mower immediately. 2. If the combined battery Ah rating is less than 15Ah, the mower will not work until more battery packs are inserted into the vacant battery compartments. 3. Reduce the load of the mower by raising the deck cutting height or slowing down the mowing when resuming operation.
	The icons of each occupied battery compartment, low power indicator, and fuel gauge blink every 1 second at the same time on the LCD screen. The first LED fuel-gauge & mower status indicator blinks too.	n/a	Flashes red	Keeps beeping until the PTO switch is pushed downward.	The battery packs are low on charge and the mower is in Limp Home mode.	Stop working and return to the battery charging area. NOTE: When the mower is in Limp-Home mode, the blades are automatically switched into low rotation speed and meanwhile the audio indicator will keep beeping. The operator should push the PTO switch downward to turn off the blade motors. The audio indicator will stop beeping after the blades stop.
	The icon of each occupied battery compartment and low power indicator blink every half a second, the first LED fuel-gauge will flash red every half a second too.	n/a	Flashes red	Keeps beeping	The battery packs are nearly depleted.	The mower will stop working immediately. The operator should transport the mower to the battery charging area for charging.

LCD Display	Description	Fault code on LCD	Mower Status Indicator	Audio Indicator	Cause	Solution
	The auto-parking icon blinks on the LCD.	n/a	OFF	Keeps beeping	The mower is parked on a slope and the operator leaves the mower without setting the parking-brake pedal at the braking position.	Set the brake pedal at the braking position. The auto-parking icon will turn off and the sound indicator will stop beeping.
	Brake pedal icon shows on the LCD	n/a	OFF	No	The parking-brake pedal is set at the braking position.	Release it before starting the mower.
	Seat sensor icon shows on the LCD	n/a	OFF	No	The operator leaves the seat or the seat safety interlock system is disconnected.	If with the operator is seated on the seat and the icon is on, stop operating the mower immediately and check the seat connection. If the seat connection with the mower is confirmed correct, please contact a qualified service technician for repairs.
	PTO Switch icon blinks	n/a	OFF	No	The blade motor was interrupted in operation and the PTO switch is not set to off position.	Before restarting the mower, push the PTO switch downward to disengage the deck motor. Please see “TROUBLESHOOTING” section in this manual for reference.
	Energy regeneration icon blinks occasionally.	n/a	OFF	No	The kinetic energy generated during braking or driving downhill is converted into electricity to charge the battery packs.	This is normal operation. No action is needed.
	CCS icon blinks	n/a	OFF	No	The CCS (cruise control system) function has failed.	The CCS function could not be set when the mower is driving at very low speed or is driving in reverse.

Notice: If a fault code appears on LCD screen, remove all battery packs and re-insert them a few minutes later. If this doesn't solve the problem, follow the fault code troubleshooting below.

LCD Display	Description		Fault code on LCD	Mower Status Indicator	Audio Indicator	Cause	Solution
see "Fault code"	Left driving motor fails in rotation.	PCBA controlled left driving motor fails.	413	OFF	One beep	PCBA failure	Have repairs performed by a qualified service technician.
		Plug (Triple-phase, power wire) connecting the left driving motor with the corresponding PCBA is loosened.	317	OFF	One beep	Loose connection	Have repairs performed by a qualified service technician.
		Plug (Six pins, signal wire) connecting the left driving motor with the corresponding PCBA is loosened.	301	OFF	One beep	Loose connection	Have repairs performed by a qualified service technician.
		Left driving motor fails.	317	OFF	One beep	Motor failure	Have repairs performed by a qualified service technician.
see "Fault code"	Right driving motor fails in rotation	PCBA controlled right driving motor fails.	313	OFF	One beep	PCBA failure	Have repairs performed by a qualified service technician.
		Plug (Triple-phase, power wire) connecting the right driving motor with the corresponding PCBA is loosened.	417	OFF	One beep	Loose connection	Have repairs performed by a qualified service technician.
		Plug (Six pins, signal wire) connecting the right driving motor with the corresponding PCBA is loosened.	401	OFF	One beep	Loose connection	Have repairs performed by a qualified service technician.
		Right driving motor fails.	417	OFF	One beep	Motor failure	Have repairs performed by a qualified service technician.

LCD Display	Description		Fault code on LCD	Mower Status Indicator	Audio Indicator	Cause	Solution
see "Fault code"	Left blade motor fails in rotation	PCBA controlled left blade motor fails	607	n/a	One beep	PCBA failure	Have repairs performed by a qualified service technician.
		Plug (Triple-phase, power wire) connecting the left blade motor with the corresponding PCBA is loosened.	509	n/a	One beep	Loose connection	Inspect the blade firstly. If it is loosened, use a 9/16 in (14 mm) torque wrench to tighten the bolt clockwise. The recommended torque for the blade bolt is 36-41 ft-lb (50-55 Nm). Otherwise, have repairs performed by a qualified service technician.
		Left blade motor fails	509	n/a	One beep	Motor failure	
see "Fault code"	Right blade motor fails in rotation	PCBA controlled right blade motor fails	507	n/a	One beep	PCBA failure	Have repairs performed by a qualified service technician.
		Plug (Triple-phase, power wire) connecting the right blade motor with the corresponding PCBA is loosened.	609	n/a	One beep	Loose connection	Inspect the blade firstly. If it is loosened, use a 9/16 in (14 mm) torque wrench to tighten the bolt clockwise. The recommended torque for the blade bolt is 36-41 ft-lb (50-55 Nm). Otherwise, have repairs performed by a qualified service technician.
		Right blade motor fails	609	n/a	One beep	Motor failure	
see "Fault code"	Accelerator pedal fails		311/411	OFF	One beep	PCBA failure	Have repairs performed by a qualified service technician.
			307/407			Loose connection	
see "Fault code"	Steering wheel fails		312/412	OFF	One beep	PCBA failure	Have repairs performed by a qualified service technician.
						Loose connection	
see "Fault code"	Parking brake fails, the mower cannot be driven.	Parking brake PCBA, which is in the front frame assembly, is broken.	309/409	OFF	One beep	PCBA failure	Have repairs performed by a qualified service technician.
		Parking brake switch and/or wire is broken.	801	OFF	One beep	Wire/Switch failure	

LCD Display	Description	Fault code on LCD	Mower Status Indicator	Audio Indicator	Cause	Solution
OFF	Charging Port Fault	n/a	Solid RED	n/a	The charging port is in open circuit.	Have repairs performed by a qualified service technician.
		n/a	Solid RED	n/a	There is no power supply.	Check the wall outlet whether there is 120V supplied or the socket is good.
		n/a	Solid RED	n/a	The fuse is blown.	Have repairs performed by a qualified service technician.
see "Fault code"	Charging Port Fault	204	n/a	One beep	The charging port is in open circuit.	Have repairs performed by a qualified service technician.
see "Fault code"	Battery Box Assembly not functioning.	217	n/a	One beep	The power source from Battery Box assembly is broken. The LED headlights and USB will not work.	Have repairs performed by a qualified service technician.
		310/410	OFF	One beep	The connection between Type C wires of Battery Box assembly and other Type C wires of the mower is out of work.	Have repairs performed by a qualified service technician.
		201/202/203	OFF	One beep	The BMS of the Battery Box assembly is broken.	Have repairs performed by a qualified service technician.
see "Fault code"	Start/stop Switch Fault	314/414	OFF	One beep	Switch PCBA failure or bad wire connection for Start/stop Switch.	Have repairs performed by a qualified service technician.
see "Fault code"	LCD Screen Fault	315/415	OFF	One beep	LCD assembly is broken or bad wire connection of the LCD assembly.	Have repairs performed by a qualified service technician.
Operator interface	Wrong starting process	n/a	Flashes green	n/a	Depress the accelerator pedal before pulling both paddles towards the operator simultaneously and then release them.	Start the mower properly following the section " STARTING THE ELECTRIC ZERO TURN MOWER ".

WARRANTY

EGO WARRANTY POLICY

5-year limited warranty on EGO POWER+ outdoor power equipment and portable power for personal, household use.
3-year limited warranty on EGO POWER+ System battery packs and chargers for personal, household use. An additional 2-year extended warranty applies for the 10.0Ah battery whether sold separately (Model# BA5600T) or included with any tool, if it is registered within 90 days of purchase. 5-year limited warranty on CHV1600 charger, designed for use with Zero Turn Riding Mower for personal, household use.

2 year/1year limited warranty on EGO outdoor power equipment, portable power, battery packs, and chargers for professional and commercial use.

The detailed warranty periods by products can be found online at <http://egopowerplus.com/warranty-policy>.

Please contact EGO Customer Service Toll-Free at 877-346-9876 (877-EGO-ZTRM) any time you have questions or warranty claims.

LIMITED SERVICE WARRANTY

EGO products are warranted against defects in material or workmanship from the date of original retail purchase for the applicable warranty period. Defective product will receive free repair.

- a) This warranty applies only to the original purchaser from an authorized EGO retailer and may not be transferred. Authorized EGO retailers are identified online at <http://egopowerplus.com/warranty-policy>.
- b) The warranty period for reconditioned or factory certified products used for residential purpose is 1 year, for industrial, professional or commercial purpose is 90 days.
- c) The warranty period for routine maintenance parts, such as, but not limited to, ride-on mower seat, wheels, tires, anti-scalp wheels, brake disc, friction block, blades, trimmer heads, chain bars, saw chains, belts, scraper bars, rubber paddles, augers, skid shoes, blower nozzles, and all other EGO accessories is 90 days for residential purpose, 30 days for industrial, professional or commercial purpose. These parts are covered for 90/30 days from manufacture defects in normal working conditions.
- d) This warranty is void if the product has been used for rental purpose.
- e) This warranty does not cover the damage resulting from modification, alteration or unauthorized repair.
- f) This warranty only covers defects arising under normal usage and does not cover any malfunction, failure or defect resulting from misuse, abuse (including overloading of the product beyond capacity and immersion in water or other liquid), accidents, neglect or lack of proper installation, and improper maintenance or storage.
- g) This warranty does not cover normal deterioration of the exterior finish, including but not limited to scratches, dents, paint chips, or to any corrosion or discoloring by heat, abrasive and chemical cleaners.

HOW TO OBTAIN SERVICE

For warranty service, please contact EGO customer service toll-free at **877-346-9876 (877-EGO-ZTRM)**. When requesting warranty service, you must present the original dated sales receipt. An authorized service center will be selected to repair the product according to the stated warranty terms. When bringing your product to the authorized service center, there may be a small deposit that will be required when dropping off your tool. This deposit is refundable when the repair service is deemed to be covered under warranty.

ADDITIONAL LIMITATIONS

To the extent permitted by applicable law, all implied warranties, including warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, are disclaimed. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, that cannot be disclaimed under state law are limited to the applicable warranty period defined at the beginning of this article.

Chervon North America is not responsible for direct, indirect, incidental or consequential damages.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For customer service contact us toll-free at: **877-346-9876 (877-EGO-ZTRM) or EGOPOWERPLUS.COM.**

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