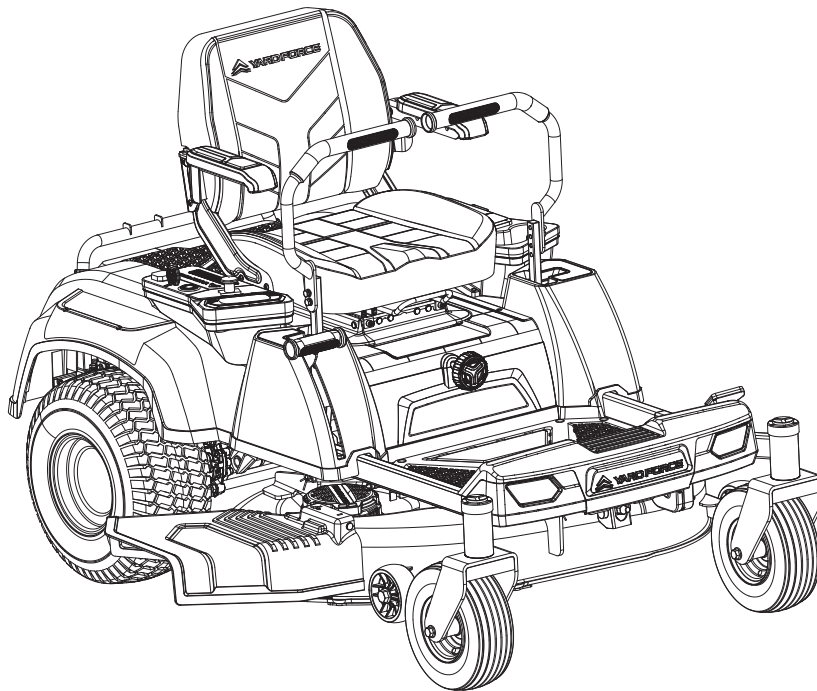




**YARD FORCE**<sup>®</sup>  
OUTDOOR POWER EQUIPMENT

Z42-562

## Z42-562 ZERO TURN LAWN MOWER OWNER'S MANUAL



*Our Customer Service staff is ready to provide assistance.*

*In the case of a damaged or missing part, most replacement parts ship directly from Merotec USA in Atlanta or from one of our service partners in the US & Canada.*

*For immediate help with assembly, or for additional product information, email [support@MerotecUSA.com](mailto:support@MerotecUSA.com). Or for the USA call 1-866-902-9690 M-F 8:30am – 5:00pm ET, for Canada call 1-833-818-4111 M-F 8:30am - 4:30pm ET.*

*More information can be found on [www.MerotecUSA.com](http://www.MerotecUSA.com).*



### **SAVE THIS MANUAL FOR REFERENCE**



*You will need this manual for safety instructions, operating procedures, and Warranty. The original sales receipt is required for warranty service.*

# YARD FORCE

## Z42-562 Original Instructions

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# SAFETY INSTRUCTIONS

## 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.
- Use only with WTL5608PNG, 1200BG5615L chargers

# SAFETY INSTRUCTIONS

## 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. Operate the park brake by securing the steering levers in the open position and set the park 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 park 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.

# SAFETY INSTRUCTIONS

- 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 turn off and remove key before servicing, cleaning, or removing material from the ride-on mower.
- After striking a foreign object, stop the motor, turn off and remove key, 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.

## SAFETY INSTRUCTIONS

- 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.

# DESCRIPTION OF SYMBOLS

## READ ALL INSTRUCTIONS!



**READ & UNDERSTAND OPERATOR'S MANUAL**

## 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.





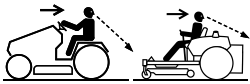




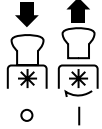





**WARNING:** The operation of any power tools can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend a Wide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

## SAFETY INSTRUCTIONS

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.


	<p>Safety Alert</p>	<p>Indicates a potential personal injury hazard.</p>
	<p>Read &amp; Understand Operator's Manual</p>	<p>To reduce the risk of injury, user must read and understand operator's manual before using this product.</p>
	<p>Eye Protection.</p>	<p>Always wear safety goggles or safety glasses with side shields and a full face shield when operating this product.</p>
	<p>Maintain Safety Devices</p>	<p>Do not open or remove safety shields while the product is running.</p>
	<p>WARNING — Keep Hands and Feet Away</p>	<p>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.</p>

## DESCRIPTION OF SYMBOLS

	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 (7ft) away from any ditches, drop-offs, or water to avoid accident going over the edge or into the water.
	Parking	Illuminates when the parking brake is set.
	PTO Switch	Engages the blades.
	Start/Stop Button	After the safety key is inserted, press the start/stop button for 1 second to start the mower.
	Driving-Speed Adjustment Button	Press “🦃” to increase the top driving speed of the mower.
	Driving-Speed Adjustment Button	Press “🐢” to reduce the top driving speed of the mower.
	Blade-Speed Adjustment Button	Press “+” to accelerate the blade speed.
	Blade-Speed Adjustment Button	Press “-” to decrease the blade speed.
IPX4	Ingress Protection Degree	Protection from splashing water
V	Volt	Voltage
A	Amperes	Current



## DESCRIPTION OF SYMBOLS

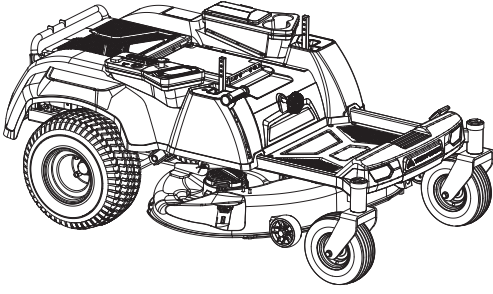

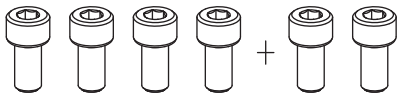

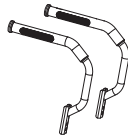
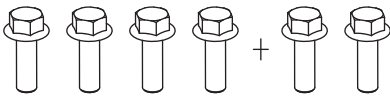
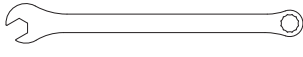
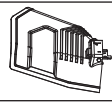


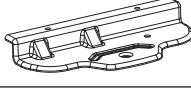


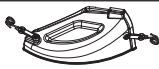



Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
	Direct Current	Type or a characteristic of current
mm	Millimeter	Length of size
in.	Inch	Length or size
Ft-lb	Foot-pound	Torque
Nm	Newton meter	Torque
kg	Kilogram	Weight
lb	Pound	Weight
°C	Celsius	Temperature
°F	Fahrenheit	Temperature
MPH	Miles Per 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 & 3 for additional LCD symbols and operation instructions.



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

# PARTS LIST

PART NAME		FIGURE	QUANTITY
Electric Zero Turn Mower			1
Seat Assembly	Seat		1
	Socket-Head Screws		4 (+2 Extra)
	Allen Key (6mm)		1
Steering Levers Assembly	Steering Lever		2
	Hex Bolts		4 (+2 Extra)
	Open-end Wrench (13mm)		2
Side-discharge chute kit Assembly	Side-discharge chute kit		1
	nut		2
	Socket Wrench 13 mm		1
Hitch Bracket Assembly	Hitch Bracket		1
	Hex Bolts with washers		2
	Socket Wrench 13 mm		1
Mulching Plug kit			1
Safety Key			2
Wash-port Quick Coupler			1
Operator's Manual			1

## PRODUCT SPECIFICATIONS

Voltage		56 V
Cutting Width		42 in (1060mm)
Wheel Size	Front	11 x 4 - 5 in (279.4 x 101.6 - 127 mm)
	Rear	18 x 8.5 - 8 in (457.2 x 215.9 - 203.2 mm)
Cold Tire Pressure	Front	22 PSI (151.6 kpa)
	Rear	18 PSI (124.1 kpa)
Turning Radius		0
Blade Speed (RPM)		2600, 2800, 3000, 3200
Max. Driving Speed Settings	Forward	3 MPH, 5 MPH, 6 MPH, 7 MPH 4.8 km/h, 8.1 km/h, 9.7 km/h, 11.3 km/h
	Reverse	up to 3MPH (4.8km/h)
Charging	Charger (Optional)	WTL5608PNG, 1200BG5615L
	Charging Temperature Range	41°F-104°F (5°C-40°C)
Cutting-Height Adjustment (10 position)		1.5 – 4.5 in (38.1 – 114.3 mm)
Max.Towing Weight		250 lb (113 kg)
Operating Temperature		32°F–104°F(0°C–40°C)
Storage Temperature		-4°F–131°F(-20°C–55°C)
Weight (With battery pack)		562 lbs (255 kg)

### RECOMMENDED ACCESSORIES FOR THE ELECTRIC ZERO TURN MOWER



**WARNING:**

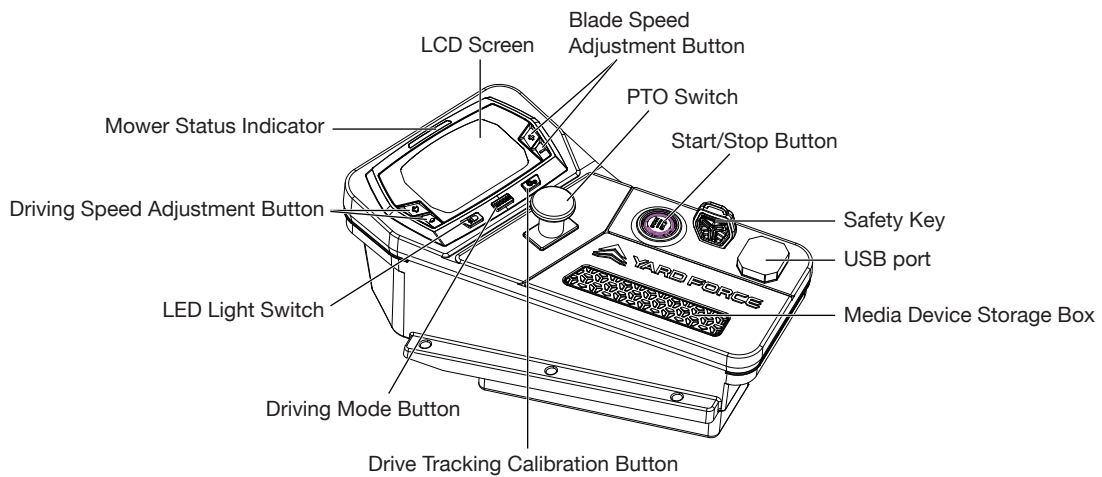
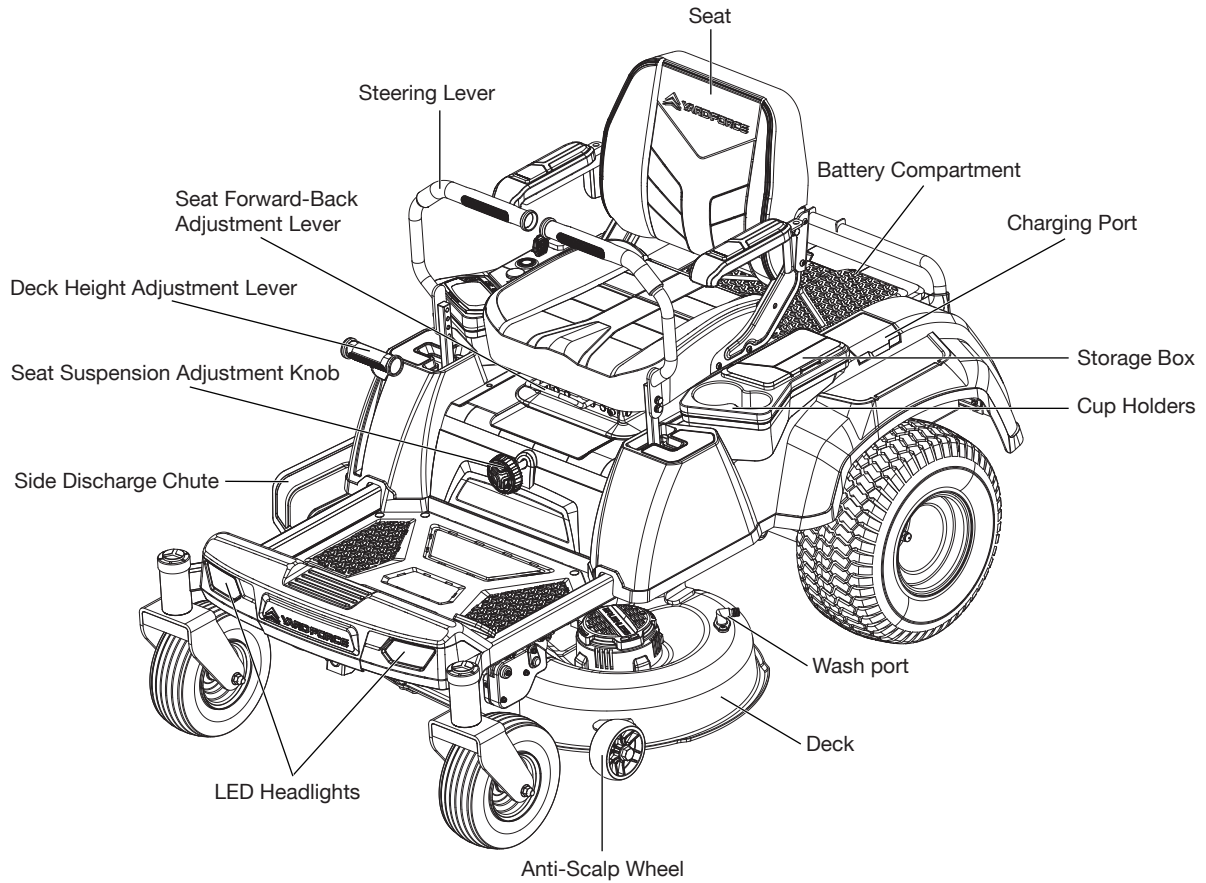
Use only identical replacement parts listed below. Use of parts that do not meet the original equipment specifications may lead to improper performance and compromised safety.

PART NAME	MODEL NUMBER
Blade	1255200000
Mulching Plug	1004840000
Grass Bagging Kit	9430003000

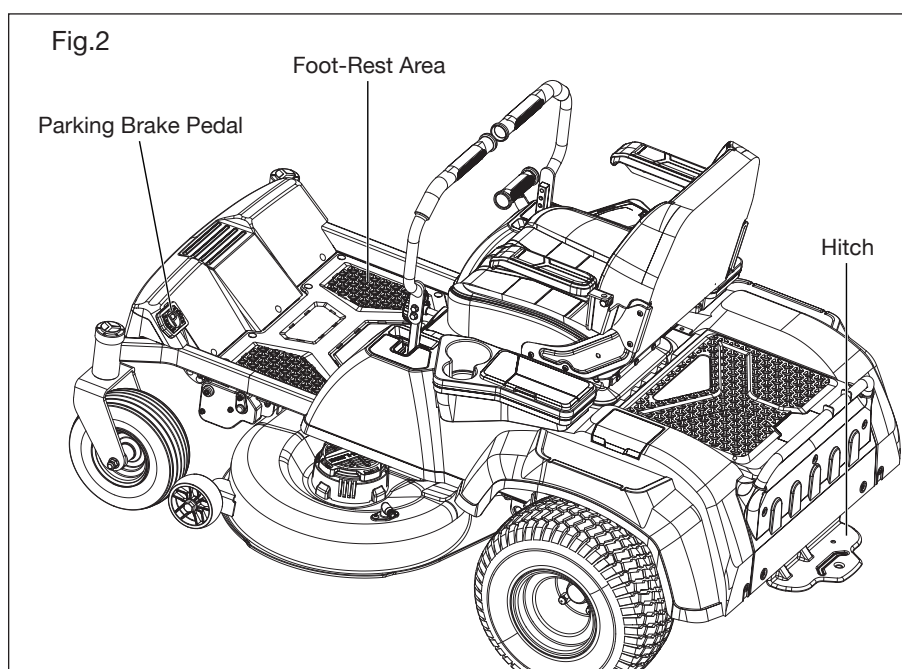
# DESCRIPTION

## KNOW YOUR ELECTRIC ZERO TURN MOWER (Fig. 1 & 2)

Fig.1



## DESCRIPTION



### WARNING:

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

### Safety Key

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

### Start/Stop Button

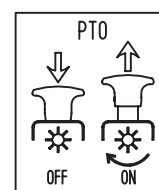
After the safety key is inserted, press and hold the start/stop button for 1 second to start the mower.

- The LCD screen will display Battery Gauge when pressed briefly.
- The LCD screen will turn off after the start/stop button has been pressed for 1 seconds.

### PTO Switch

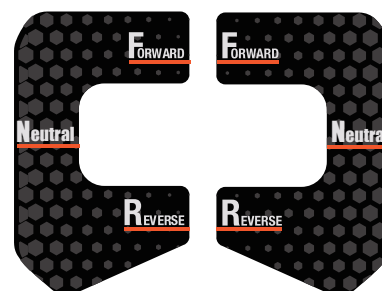
Engages the blades.

**NOTICE:** It is recommend to engage the blade motors before cutting heavy grass. If the motors are stopped while cutting, raise the deck before reengaging the blade motors.



### Steering Lever

The left and right steering levers control the mower's speed, direction, and stopping. (neutral position)



### Parking-Brake Pedal

Locks the mower in the braking position.

### Seat Forward-Back Adjustment Lever

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

## DESCRIPTION

### 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

Helps to prevent the deck from contacting the ground and scalping the lawn when passing over a high spot.

### Side-Discharge Chute

Allows grass clipping to be discharged from the cutting deck. The side discharge chute is not installed when the mower is shipped. This must be installed before operation, see page 22.

### Hitch

For towing carts or other wheeled attachments. Refer to towing section in the safety information.

### LED Headlights

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

### LED Light Switch

Controls the headlights.

### Storage Boxes

The left-side storage box is designed for storage for small belongings.

The right-side phone storage box is designed for convenient storage of a mobile phone.

### Charging Port

Open the port to charge the battery.

### USB Port

The USB port provides charging power of 5 Voltage DC at up a combined draw of 2A 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 draws exceed 2 A could damage the USB port and/or the mower. Always close the storage box cover when not in use to prevent debris from becoming trapped in the USB port.
- The USB port is powered only when the mower is not in charging mode.

### Driving-Mode Button

**Driving modes button makes changes to the input sensitivity of the steering levers. Select among CONTROL, STANDARD driving modes by sequentially pressing the driving-mode button. The default is STANDARD.**

- **CONTROL:** Lower acceleration, less sensitive handling, and mild turning speed to protect the grass and for new operators.
- **STANDARD:** Allows for more precise and quick response of the steering.

## DESCRIPTION





### **WARNING:**

The operator should be familiar and experienced with zero turn mower handling and operations.

### **Driving-Speed Adjustment Button**

Allows the operator to select a comfortable driving speed.

- Press “” to increase the top driving speed of the mower or press “” to reduce the top driving speed of the mower.

**NOTICE:** The driving speed and driving mode cannot be adjusted during driving. The function will activate only when the mower wheels are stopped and the steering levers are in the open position.

### **Blade-Speed Adjustment Button**

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.

- Press “+” to accelerate the blade speed and press “-” to decrease the blade speed.

### **Limp-Home Mode**

When the available battery charge is very low, the mower will go into Limp-Home mode. The low power indicator will flash on the LCD screen. Blade stop automatically, and can't be turned on before the mower is recharged. The maximum distance the mower can travel is 1 mile. The operator should stop working and go to the battery charging area as soon as possible.

**NOTICE:** If manual pushing is needed, be sure that the machine is turned off and 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 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.

### **Indicator Sound (Beeps)**

The electric zero turn mower is equipped with an indicator that will beep. It will sound when:

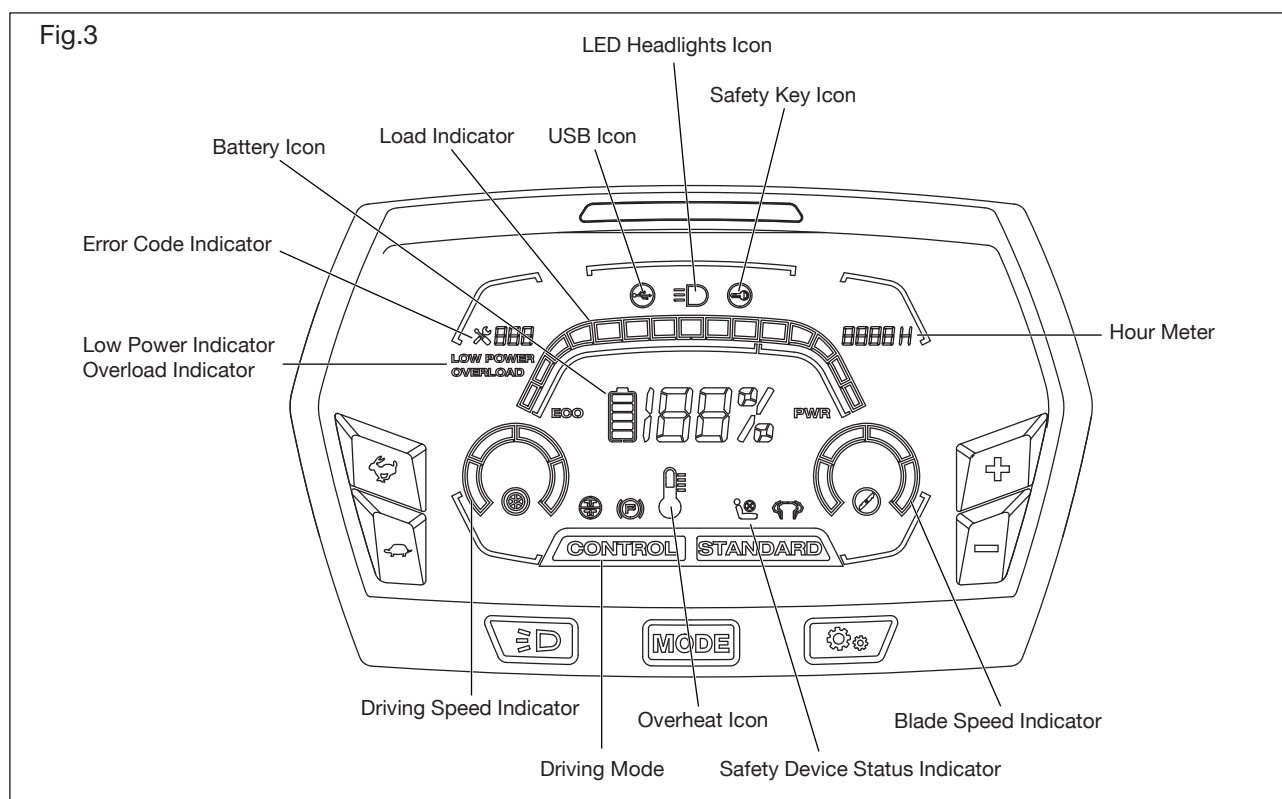
- When the available battery charge is too low, the mower will go into Limp-Home mode, the beep will continue to sound.
- When a fault code is displayed on the LCD screen, the beep will sound 5 times.
- Operator is off the seat without locking the parking brake pedal into the parked position, the beeps will sound continuously to remind the operator to set the park brake for safety.

### **Indicator LED light**

When the error code is displayed on the LCD screen, the indicator LED light will change to solid red.

## DESCRIPTION

### KNOW THE ICONS AND INDICATORS ON THE LCD SCREEN (Fig. 3)



#### Safety Key Icon

When the safety key is correctly inserted before operating the mower, the safety key icon will illuminate, otherwise this icon will keep flashing as a warning to instruct the operator to insert the safety key.

#### LED Headlights Icon

Illuminates when the LED headlights have been turned on.

#### USB Icon

Illuminates to indicate that a USB device can work 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.

#### Low-Power Indicator

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



## DESCRIPTION

### Error 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 “**ERROR CODE & 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 on the LCD screen will change to solid red.

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

### Over-heat Icon

When the battery is overheated, the over-heat icon will flash every second. The beeping indicator will sound 5 times.

When the mower is overheated, the over-heat icon will flash every second. The mower status indicator on the LCD screen will change to solid red.

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. Allow the battery pack or the mower to cool.

### Battery Icon

Shows available charge stored in battery.


### 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 and flashes when the operator is off the seat.

“” flashes to instruct the operator to reset the steering levers to open position and/or release the parking brake.

# ASSEMBLY

## ASSEMBLY



### **WARNING:**

To prevent accidental starting that could cause serious personal injury, always remove the key from the machine 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.

## 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.

Recommended tools for unpacking (not included):

- Scissors or box cutters.
- Impact wrench with 13 mm socket.

The electric zero turn mower is shipped in a steel frame covered by a carton, with seat and steering levers separately packed in the steel frame. The operator should remove the packaging from the steel frame first and then mount the seat and steering levers onto the mower as follows:

1. Remove the carton from the steel frame.
2. Cut the nylon straps and remove the accessory box located in the center seat area of the mower and remove the two open-end wrenches inside.
3. Use the two supplied open-end wrenches to loosen all the bolts that secure the side frames, front frame, back frame, and the two mower rear wheels from the bottom frame (Fig. 4). Remove and save the disassembled frames in a safe area, avoiding tripping hazard. Consult your local waste authority for information regarding available recycling and/or steel-disposal options on the frames.

**NOTE:** To speed up the process use an impact wrench with a 13 mm socket.

# ASSEMBLY

Fig.4-1

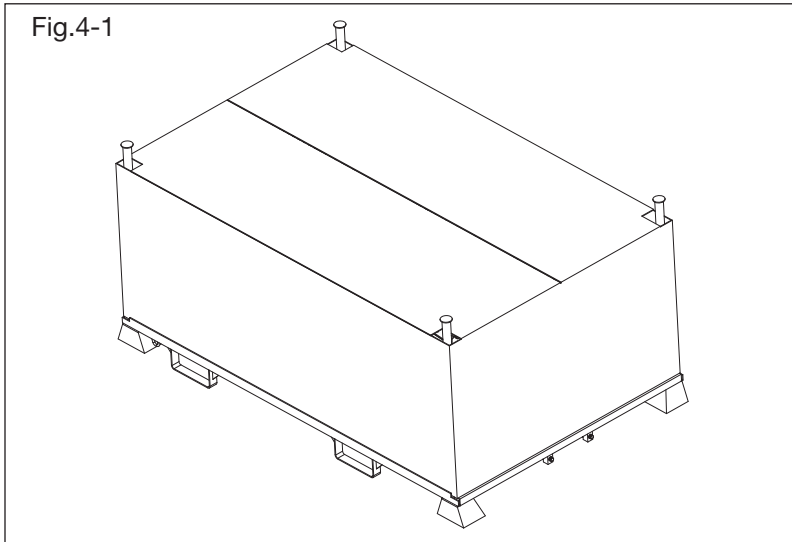
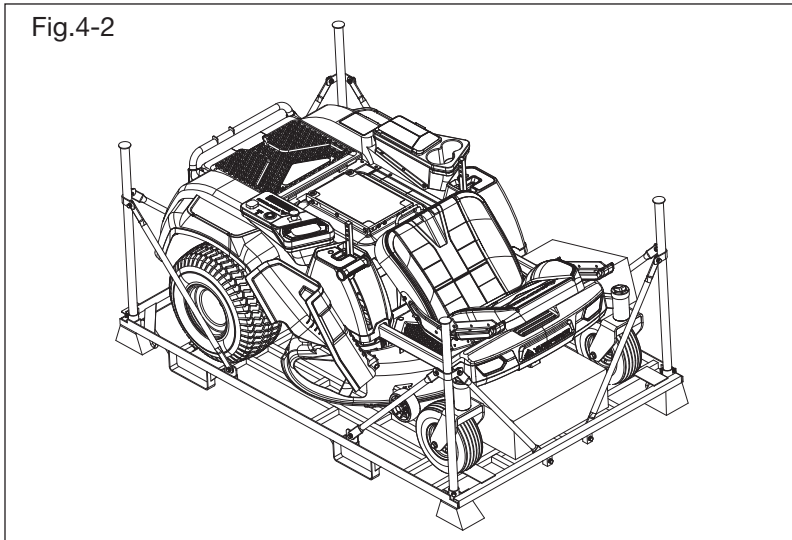
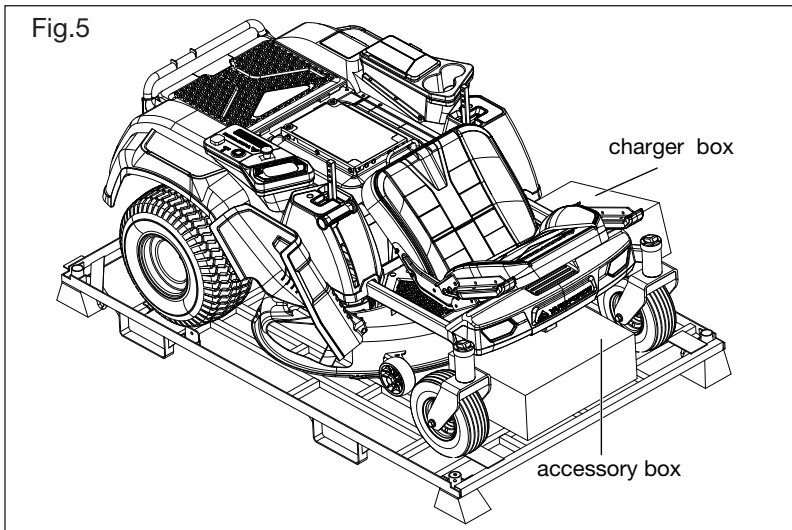


Fig.4-2



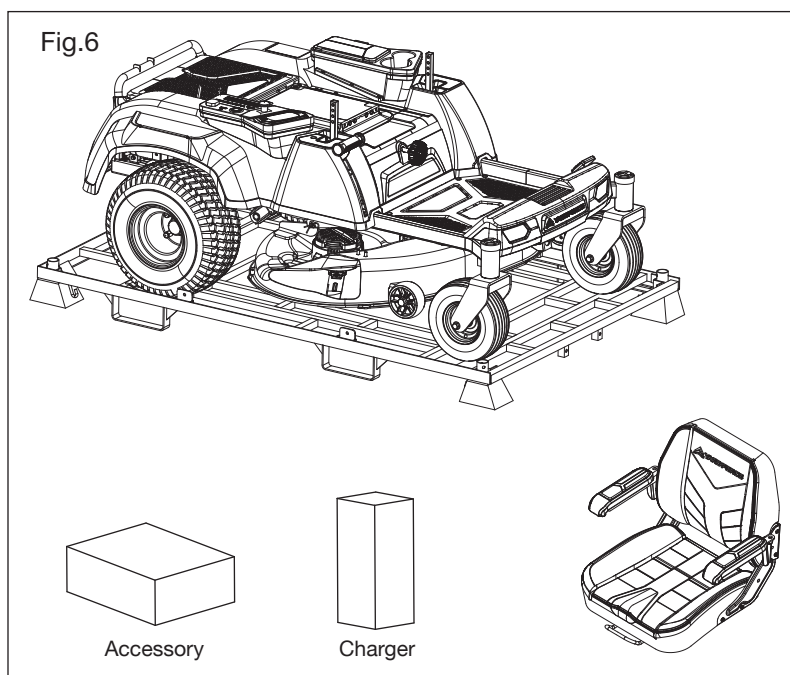
4. Cut the nylon straps securing the charger boxes, seat, accessory box, mower front wheels and rear wheels (Fig. 5).

Fig.5



## ASSEMBLY

5. Remove the accessory box which located under the foot pedal, then remove the seat assembly and charger box from the mower (Fig.6).



6. Remove and set aside all accessible packaging and wrap. Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
7. If a ramp is available, position a full-width ramp against the bottom frame, close to the front wheel (Fig.7). Do not exceed the maximum recommend operating angle of 15°.
8. Release the parking-brake pedal from the braking position. Refer to section “**PARKING BRAKE SETTING**” in this manual.

**NOTE:** A significant effort is required to release the parking-break pedal by hand. Push hard.

## ASSEMBLY

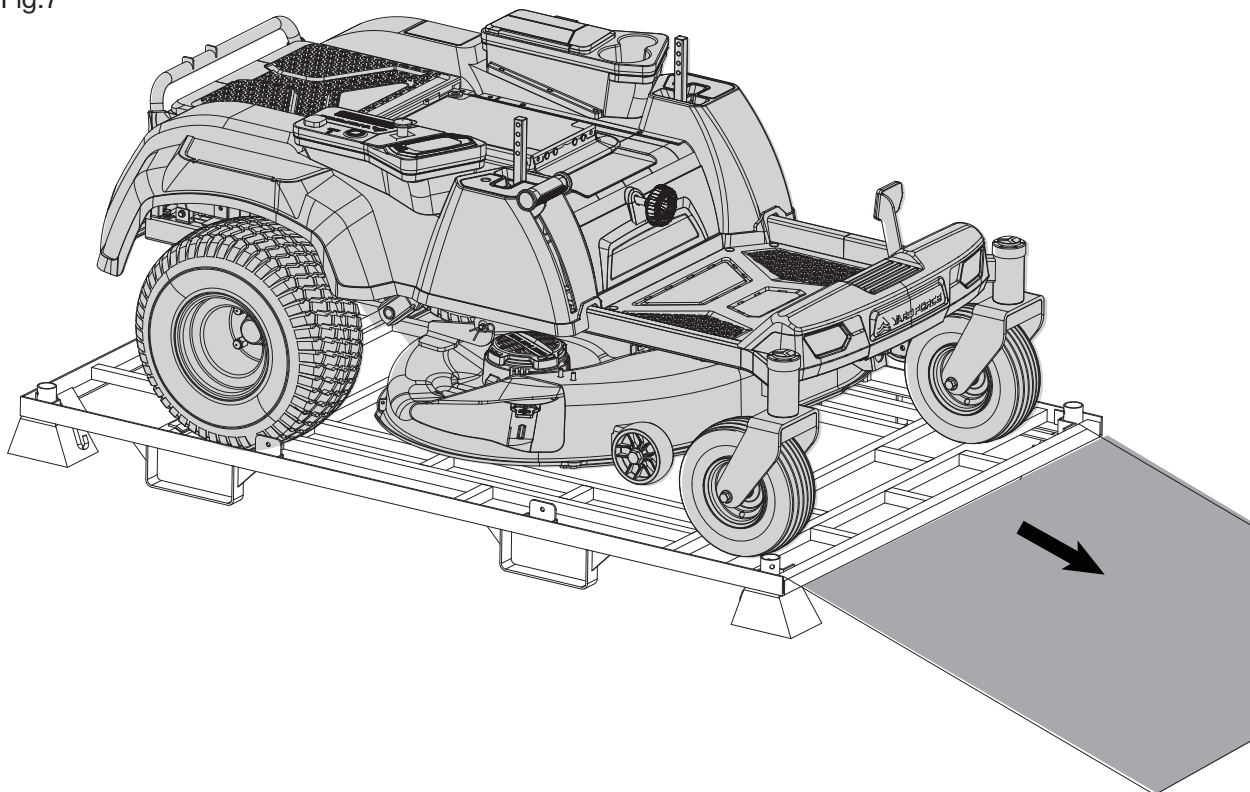
- Two persons are recommended: One person should stand in front, and pull and steer the mower forward, pulling by the mower frame. The 2nd person should stand at the back of the mower, pushing the mower by it's frame.



### CAUTION:

Heavy object. Team work required. At least two persons are required to push and pull this mower out of the shipping frame.

Fig.7



### NOTICE:

**PULL THE MOWER FORWARD.** Pulling the mower backward from the steel frame will cause the mower to catch in the bottom frame and may damage the mower's cutting deck. Always remove the mower from the frame in the forward direction. Use of a sturdy ramp, or a 2x4 block of wood placed on the ground against the front of the shipping frame will help when moving the mower off the shipping frame.



### WARNING:

Do not use this product if any parts on the packing list are already assembled to your product when you unpack it. Parts on this 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 after sale service.

# ASSEMBLY

## TO INSTALL THE SIDE DISCHARGE CHUTE

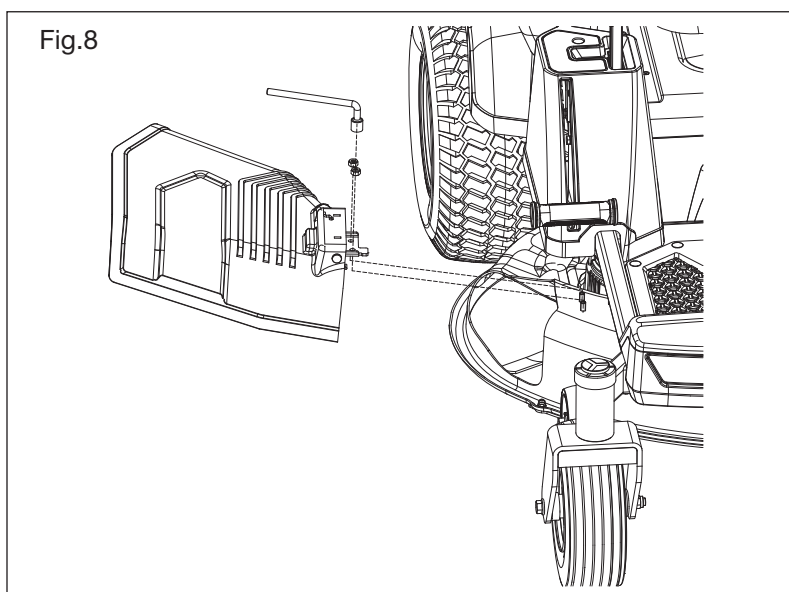


### WARNING:

WARNING: Operating the mower without side-discharge chute in place will result in serious personal injury; Mounting the side-discharge chute is the most high priority.

1. Adjust the deck to the lowest cutting height.
2. Assemble the bracket of the side-discharge chute kit to the 2 welded bolts on the deck, tighten 2pcs nuts with socket wrench supplied (Fig.8).

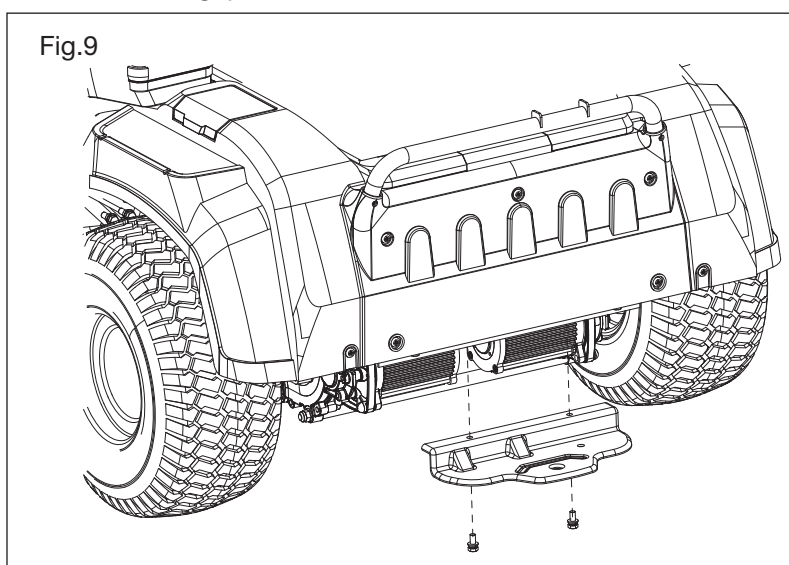
NOTICE: Make sure that there is no gap between the bracket and the deck after tightening.



## TO INSTALL THE HITCH

1. Align the hitch bracket to the rear frame of the mower, then use the supplied socket wrench to secure the bracket with the two supplied Hex bolt with washes (Fig.9).

NOTICE: Make sure that there is no gap between the bracket and the mower frame after tightening.



# ASSEMBLY

## TO INSTALL THE SEAT

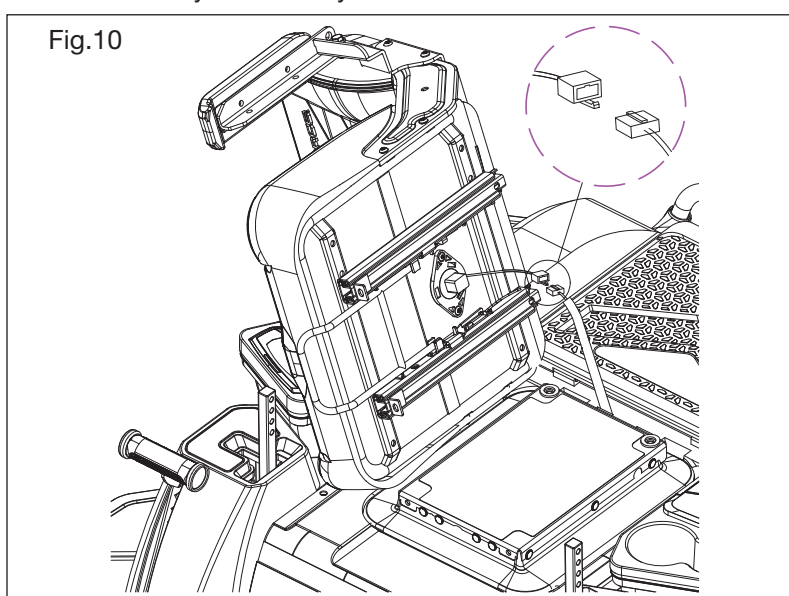
The mower incorporates a separate seat switch that will stop the drive motors and deck motors when the operator is unseated for any reason while the mower is operating. This is a safety feature designed to prevent runaway or accidental entanglement.



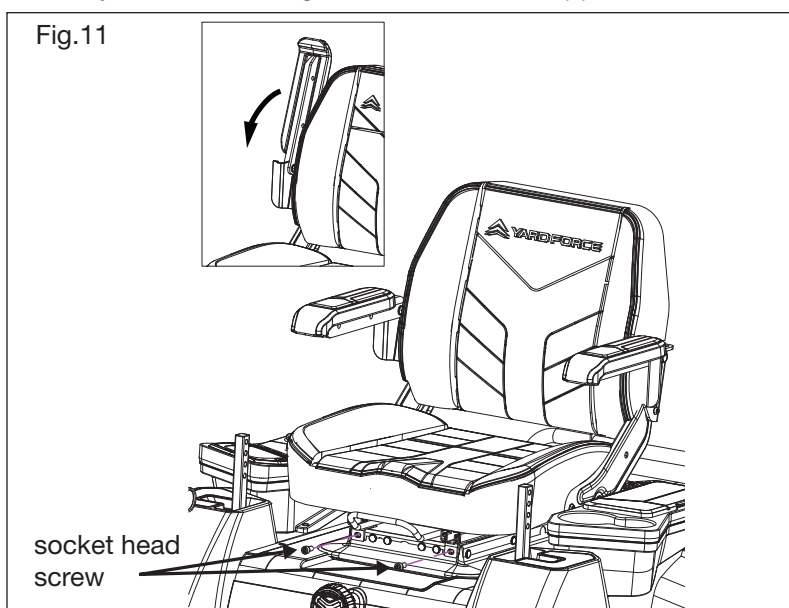
### WARNING:

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

1. Remove the four socket-head screws from the accessory box and set them aside.
2. Lay the seat assembly on its side and insert the cable plug into the socket on the bottom of the seat (Fig. 10). This connects the safety interlock system.

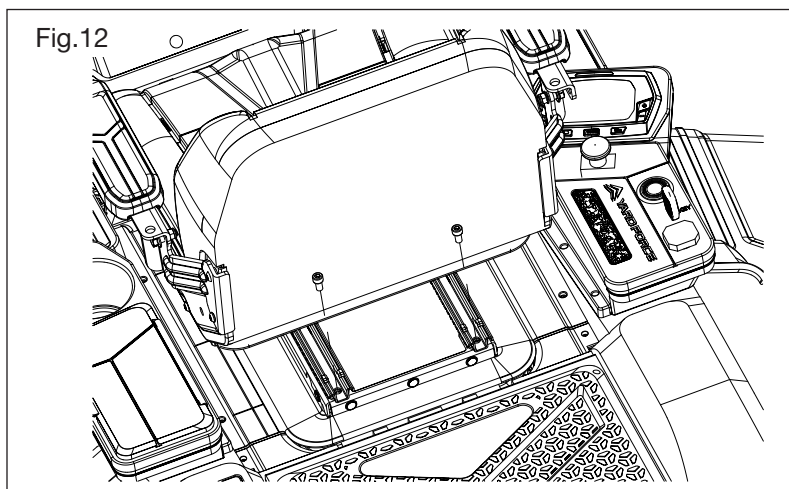


3. Rotate the two arm rests to the horizontal positions. Place the seat closely against the front of the suspension base. Align the two mounting holes in the seat with the holes in suspension base, and use the the supplied Allen key to lock them together with the two supplied socket-head screws (Fig. 11).



## ASSEMBLY

- Lift the seat forward-back adjustment lever slightly and pull the seat forward to expose the two backside mounting holes in the steel rails of the seat assembly. Use the supplied Allen key to thoroughly tighten the steel rails onto the suspension base with the remaining two socket head screws (Fig. 12).

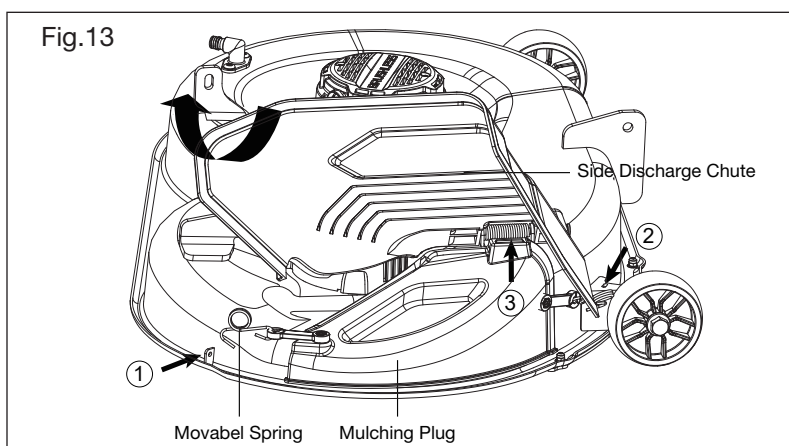


### WARNING:

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.

### TO ATTACH THE MULCHING PLUG

- To set up the mower for mulching, lift the side-discharge chute first, then hook the mulching plug onto the deck opening at the spots 1, 2, and 3 as shown in Fig. 13. Make sure that all the hooks are securely fastened in their places and prevent the mulching plug from moving. Leave the side-discharge chute in the open position.
- To remove the mulching plug, separate the movable spring of the mulching plug from the hook on the deck first and then remove it from the deck opening. Lower the side-discharge chute slowly until it rests firmly against the deck.

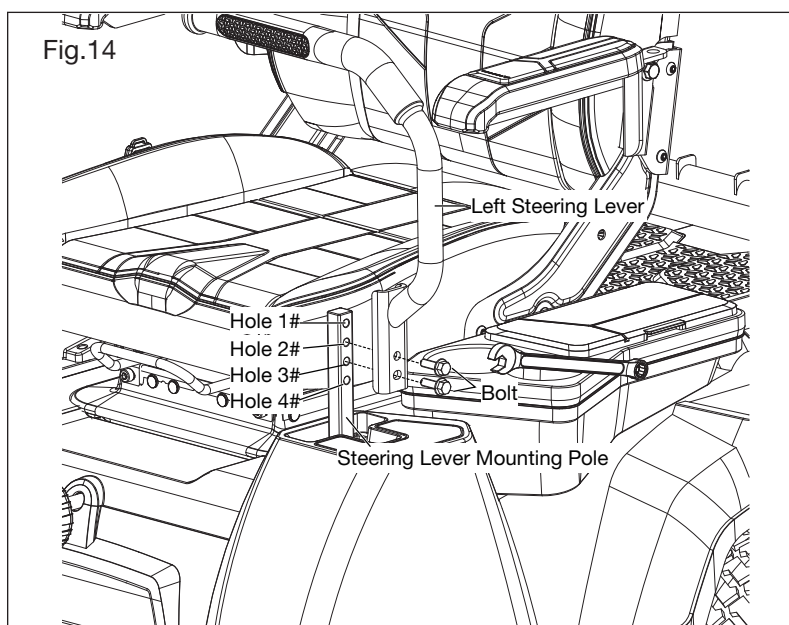




# ASSEMBLY

## TO INSTALL THE STEERING LEVERS

1. Remove the four hex bolts from the accessory box and set them aside.
  - Lift one steering lever to align the holes in the steering lever with the holes in the corresponding mounting pole. Select the preferred steering-lever operating height, and then use the supplied open-end wrench to secure the steering lever with the two supplied hex bolts as indicated below (Fig. 14).
  - Hole 1 & 2: upper fixing holes for steering lever.
  - Hole 2 & 3: middle fixing holes for steering lever.
  - Hole 3 & 4: lower fixing holes for steering lever.
2. Assemble the other steering lever and tighten with the remaining two hex bolts in the same way



**NOTICE:** The left and right steering levers should be adjusted so that they align with each other when in the neutral position. NEVER install the steering levers in an asymmetrical operating height.

# OPERATION

## 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 purpose listed below:

- Mowing your lawn.

## FINAL PREPARATION

### CHECK THE TIRE PRESSURE

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.

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

Recommended Pressure	Front Wheel	Rear Wheel
	22PSI (151.6 kpa)	18PSI (124.1 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.

## VERIFY MOWER CONDITION

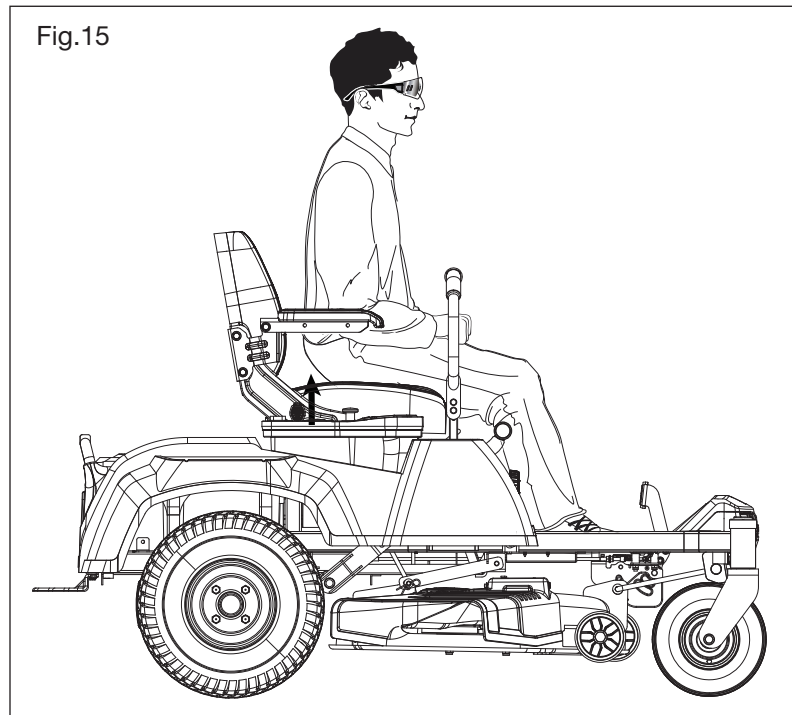
Inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until any missing or damaged parts are replaced.

## TEST THE SAFETY INTERLOCK SYSTEM (Fig. 15)

The mower incorporates a separate seat switch 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. The operator must be on the seat when testing the seat switch.
3. Release the parking brake pedal. Keep the steering levers in the open position.
4. Insert the safety key into the mower. Press and hold the start/stop button for 1 seconds to illuminate the LCD screen.
5. Pull the PTO switch upward to engage the blade motors.
6. Slowly raise yourself off of the seat, but do not get off the mower. The deck blade system should stop.

## OPERATION



7. If the deck-blade system fails to stop when the operator is off of the seat and if the cause cannot be determined after confirming the plug and socket connection of the seat is well connected, contact your customer service center immediately.
8. Push the PTO switch downward to disengage the blade motors and adjust the steering levers from open position to neutral position.
9. Adjust the steering levers forward or backward to drive the mower; refer to “DRIVING THE MOWER” in this manual.
10. Slowly raise yourself off of the seat. The driving system should stop.
11. If the driving system fails to stop when the operator is off of the seat and if the cause cannot be determined after confirming the plug and socket connection of the seat is well connected, contact your customer service center immediately.



### **WARNING:**

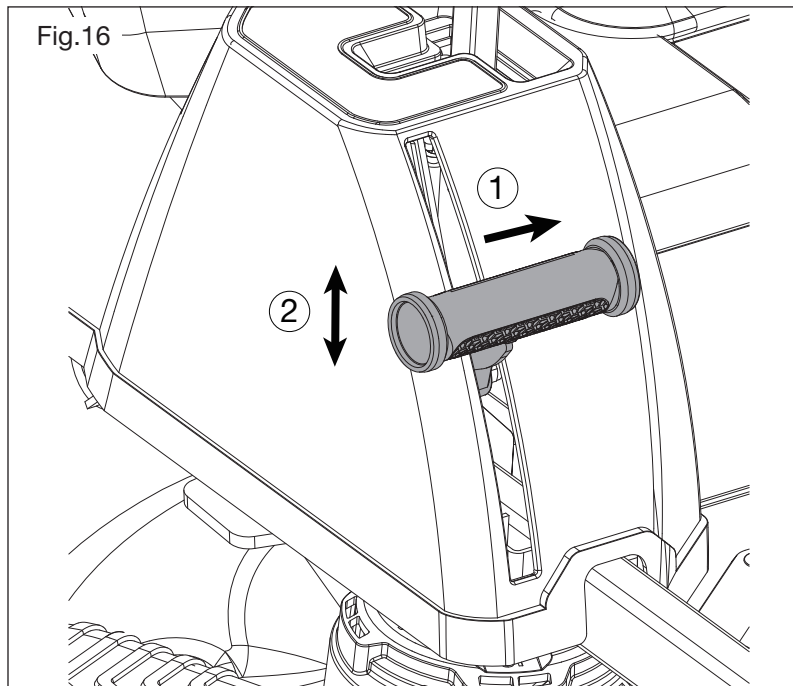
DO NOT operate the mower until the safety interlock system has been repaired by a qualified service technician.

### **CUTTING-DECK HEIGHT ADJUSTMENT (Fig. 16)**

**NOTICE:** The 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.

**NOTICE:** 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.

## OPERATION



1. Make sure that the key has been removed from the mower before making any adjustments.
2. To lower the cutting height, grasp the deck-height adjustment lever and move it inwards to disengage it from the slot. Move it downward and engage it into the slot when it arrives at the desired cutting height.
3. To raise the cutting height, grasp the deck-height adjustment lever and move it inwards to disengage it from the slot. Move it upward and engage it into the slot when it arrives 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 cutting blade is engaged. 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 slot. Quickly letting go of the lever may create a pinching or pulling hazard to the operator's hand.

# OPERATION

## SEAT ADJUSTMENT (Fig. 17)



### WARNING:

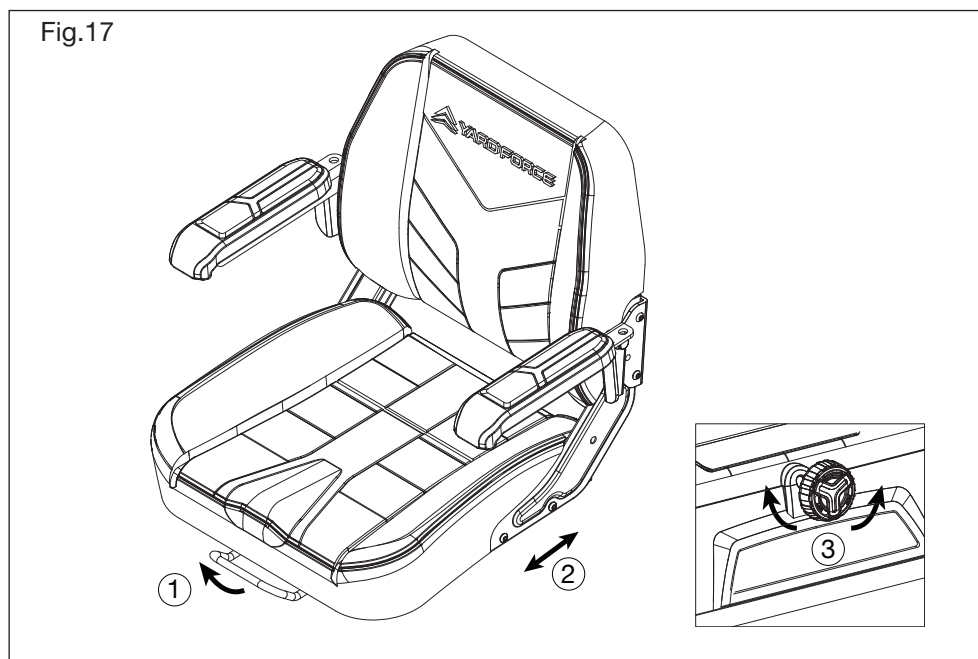
Be sure the seat is secured to the mower with the included socket-head screws before operating the mower. A seat that is not secure can cause the operator to lose control of the mower and result in possible death or serious personal injury.

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

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

### To adjust the seat

1. Set the parking brake.
2. Sit down on the seat; lift the seat forward-back adjustment lever and hold it, then move the seat forward or backward to the desired position.
3. Release the seat forward-back adjustment lever and ensure that the seat is locked in position.
4. 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.



## PARKING BRAKE SETTING (Fig. 18)

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. Place the steering levers back in the neutral position and open them outwards to the open position.
2. Use your left foot to fully depress and hold the parking-brake pedal until the pedal locks into place.
3. The pedal should stay in place. Remove your foot from the parking-brake pedal.

## OPERATION

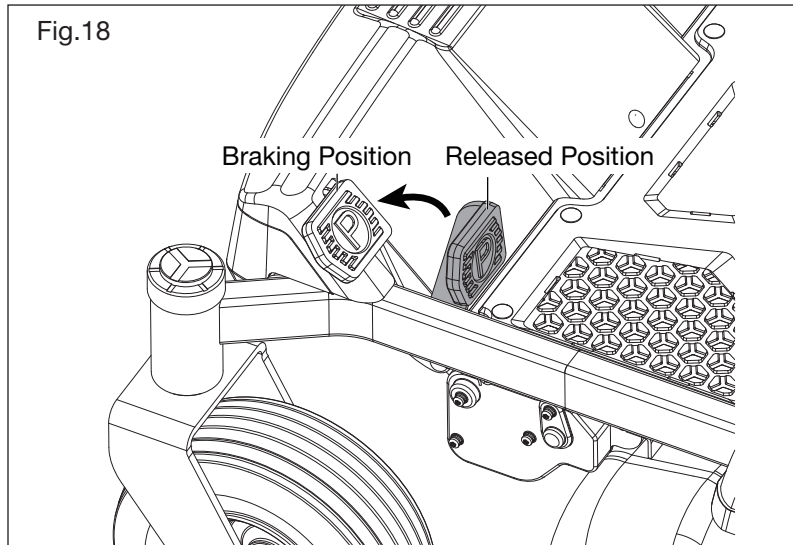
### To release the parking brake

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.



### CHARGING THE ELECTRIC ZERO TURN MOWER

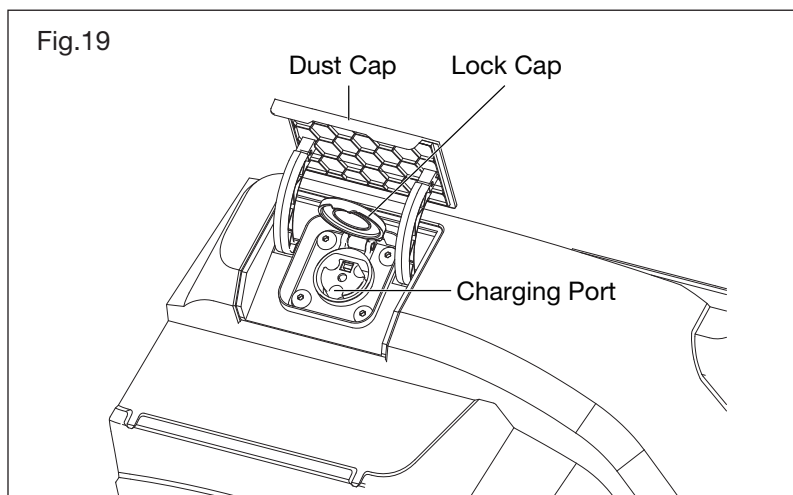
When battery charge becomes low, the mower will go into Limp- Home mode and will permit the mower to travel a maximum distance of 1 miles back to the battery-charging area. The blades are automatically stopped to save the battery charge.



#### WARNING:

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

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



## OPERATION

### Charging the Batteries via Charging Port

The battery charging port is located on the left housing of the mower, next to the storage box (Fig. 19). To charge the battery,

- Stop the mower and remove the safety key; make sure that the mower comes to a complete stop.
- Lift the dust cap and lock cap from the battery charging port on the mower and connect the charger plug into the port (Fig. 20). The locking cap tab must be seated into the charger plug for a correct fit.

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

- Plug the other end of the charger into a 120V household outlet (Fig. 20).
- The charger will start to charge the batteries. After the batteries are full charged, as indicated on the LCD screen, disconnect the charger plug from the wall outlet and remove the charger plug from the port.
- Close the charger port with the Dust Cap and Lock Cap and begin operating the mower.



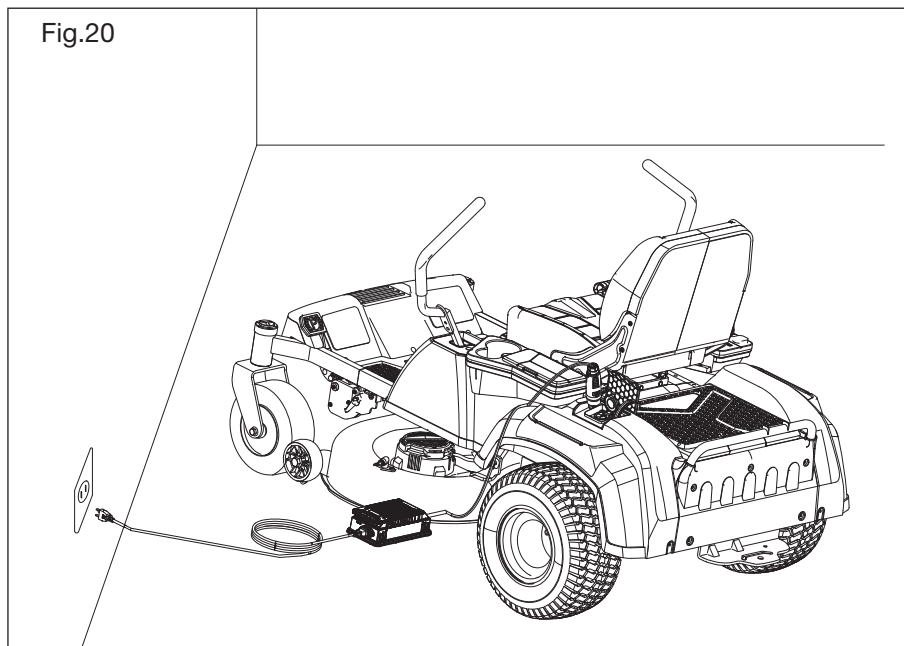
**WARNING:**

Do not smoke while charging the mower with the batteries installed.



**WARNING:**

The mower should be charged under a covered area out of the rain or indoors.



**NOTICE:**

- Lithium-ion batteries do not develop a memory and do not need to be fully discharged before recharging.
- When storing, the mower should be charged to 100% at least once every 6 months for longest possible battery life.
- When charging, be sure that the charger cooling fan inlet and outlet are not blocked.

# OPERATION

## 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 mower.
- Check for loose fasteners.
- Check to make sure that all guards are in place and working properly.
- Check the tire pressure.
- Check the brake operation.
- Test the safety interlock system.
- Adjust the deck height to the desired cutting position best suited for the lawn.
- Adjust the seat to desired position.
- Verify the battery charge level.

## STARTING THE ELECTRIC ZERO TURN MOWER

Operating a zero turn mower is different from operating a standard riding mower. Zero turn mowers are rear-wheel drive and the wheels operate independently as directed by the position of the steering levers. 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.



### WARNING:

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 (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 and hold the start/stop button for 1 second to illuminate the LCD screen.
3. Check for the appropriate driving mode by pressing the driving mode button.

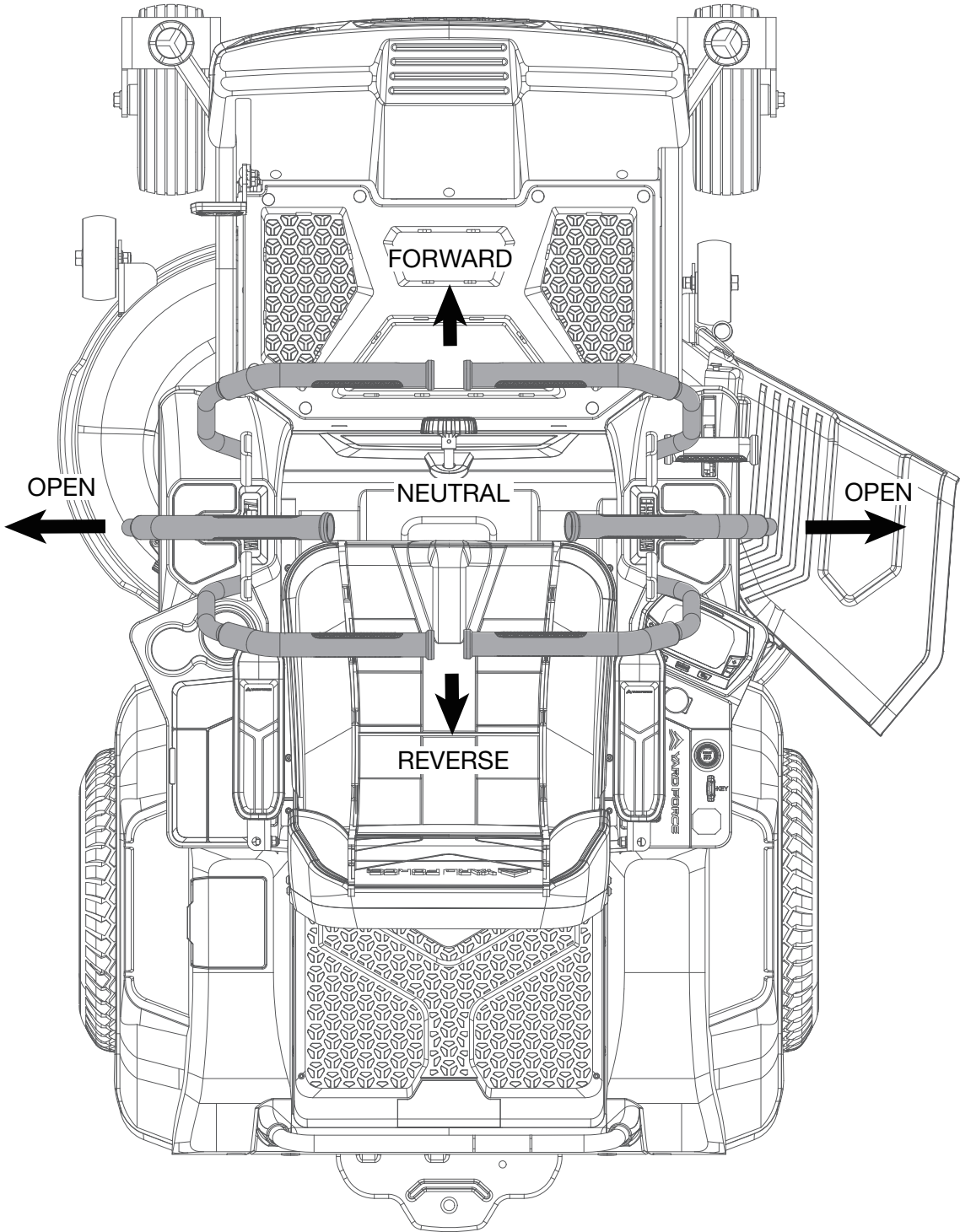
**NOTICE:** It is always recommended to start the mower in the lowest driving speed.

4. Release the parking brake pedal from the braking position and move the two steering levers inward from the open position to the neutral position. You are ready to maneuver the steering levers to drive the mower.
5. Pull the PTO switch to start the cutting blades.
6. Push the steering levers forward for forward motion and pull back for reverse motion (Fig. 21).



# OPERATION

Fig.21



# OPERATION

## STOPPING THE ELECTRIC ZERO TURN MOWER



### DANGER:

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

1. Return the steering levers to the Neutral Position.
2. Push the PTO switch downward to disengage the deck motors/mower's cutting blades.
3. Open the steering levers outward into the stop position.
4. Set the parking-brake pedal to the braking position.
5. Press the start/stop button for more than 1 seconds to turn off the mower.

**NOTICE:** After more than 1 hour without operating, the mower will automatically shut off.

6. Remove the safety key from the mower and keep it in a safe place.



### 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 key 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 park brake pedal at the braking position, the beeping indicator will sound continuously to remind the operator to set the park brake for safe mower stopping on the slope. Always set the park brake pedal at the braking position when leaving the seat.

**Otherwise, the mower will slide down the slope, which may cause serious mower damage or personal injury!**

## DRIVING THE ELECTRIC ZERO TURN MOWER (Fig. 22)

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

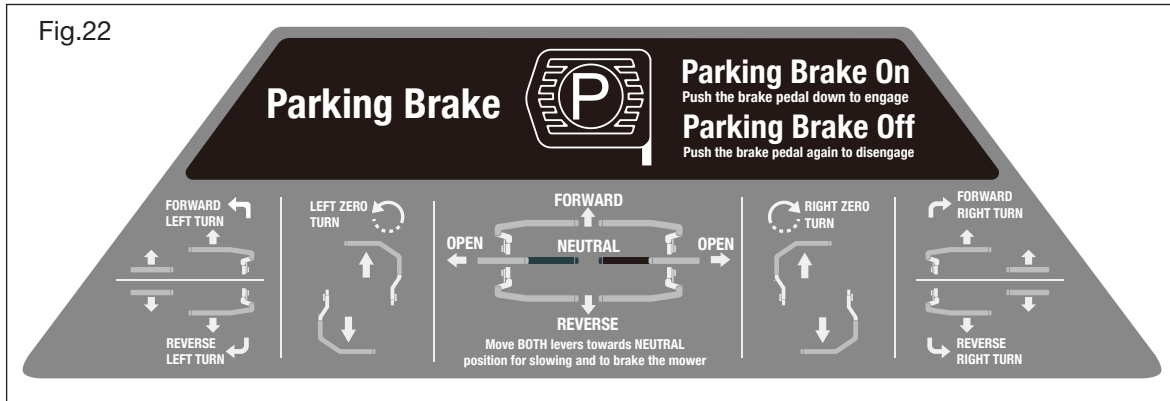
- **To go forward**, push steering levers forward an equal distance.
- **To go in reverse**, pull steering levers rearward an equal distance.
- **To turn left**, move the right steering levers farther from neutral than the left steering lever.
- **To turn right**, move the left steering levers farther from neutral than the right steering lever.
- **To execute a zero-radius turn**, slow down first and then move one steering lever forward and the other steering lever back of neutral. This allows the drive (rear) wheels to counter-rotate.

**NOTICE:** Rapid movement of steering levers 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. Always keep both wheels rotating when making sharp turns. Do not make turns with inside wheel completely stopped. For minimum turning radius, slowly reverse the inside wheel while moving the outside wheel slowly forward.

## OPERATION

- **To stop or decrease speed**, move the steering levers to neutral. When going forward, pull back gently on the steering levers. When going in reverse, push forward gently on the steering levers.



**FRONT OF MOWER FACES THIS DIRECTION**

- To increase speed, increase the steering lever's distance from neutral. The farther forward the steering levers are from the neutral, the faster the mower will travel forward. The farther back the steering levers are from the neutral, the faster the mower will go in reverse.



**DANGER:** Stay at least two mowing widths (7ft) 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 levers before depressing the parking brake 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, disengage the blades and raise the cutting deck to the highest position to minimize the possibility of ricochet. Drive slowly to avoid loss of traction and control.

### 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.

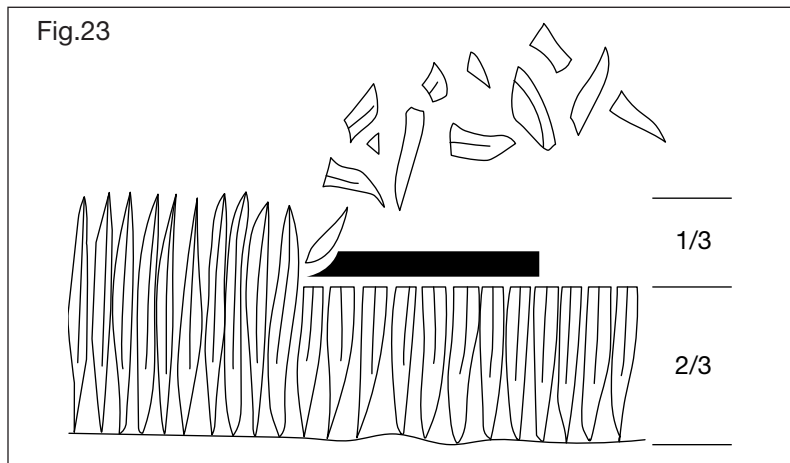
## OPERATION



### WARNING:

If you strike a foreign object, stop the motors 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 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. 23). The average lawn should be approximately 1-1/2 to 2 inches long during cool months, and between 2 to 3-1/4 inches 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.
- When the mulching plug is used, it is important to mow frequently.

### SLOPE OPERATION (Fig. 24)

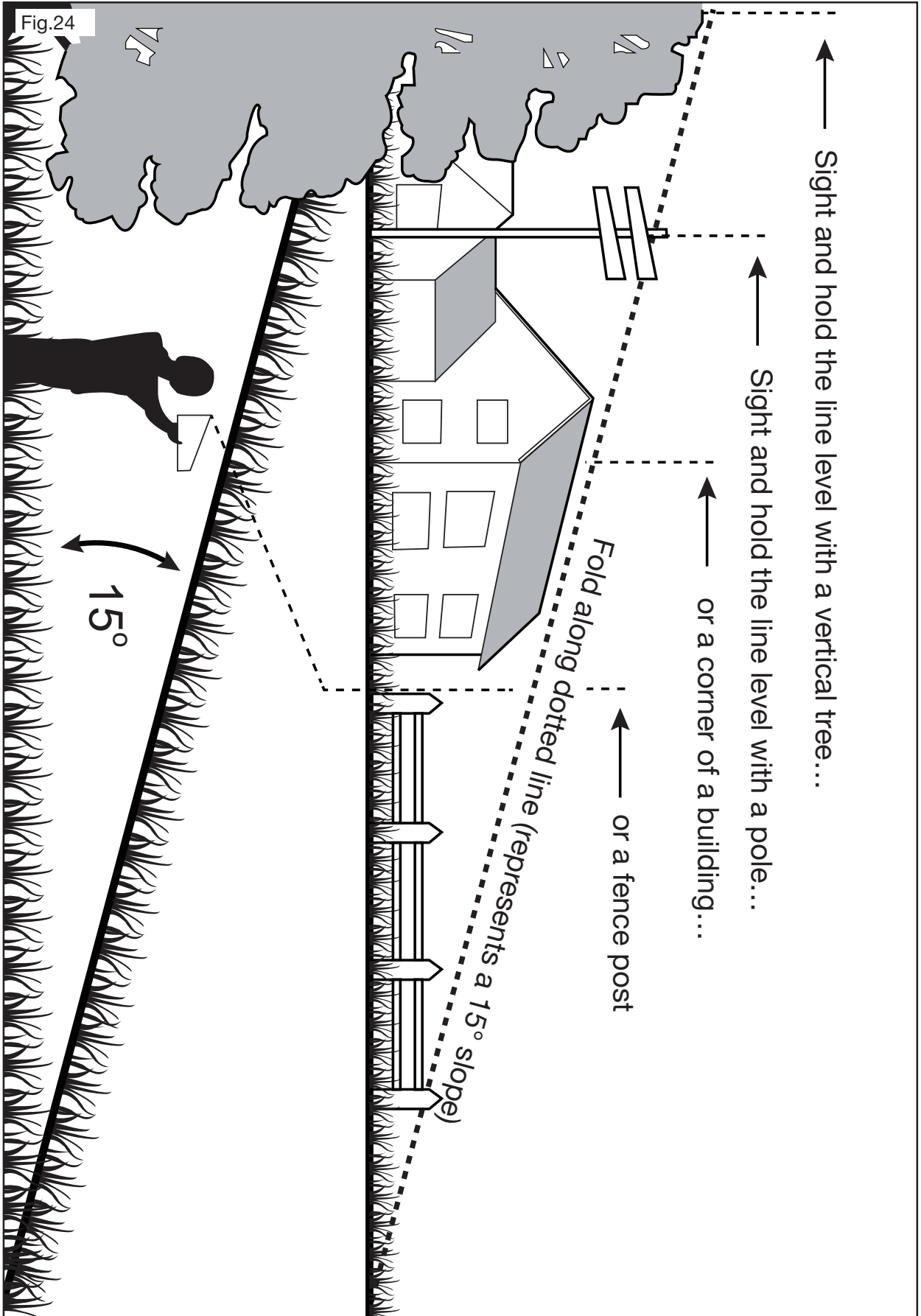
See section “SLOPE SPECIFIC” in this manual for safety instructions before slope operation.



### WARNING:

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. 24) and use to determine if your slope is too steep for safe operation.

# OPERATION



## OPERATION

- Mow up and down, not across the face of slopes.
- Do not mow on 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 cause you to slip or trip. Tall grass can hide obstacles. Remove all objects such as rocks, tree limbs, etc., which could be tripped over or 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 AND STOARGE



**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"> <li>• Check the safety-interlock system.</li> <li>• Visually inspect to see if the tires are full.</li> <li>• Inspect the blades.</li> <li>• 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.</li> </ul>
After each use	<ul style="list-style-type: none"> <li>• Clean the mower deck.</li> </ul>
Every 25 hours	<ul style="list-style-type: none"> <li>• Check tire pressure.</li> </ul>
Every 100 hours	<ul style="list-style-type: none"> <li>• Check the rear wheels, ensuring that the 4 lug nuts are fastened at the recommended torque.</li> </ul>
Every 200 hours	<ul style="list-style-type: none"> <li>• Check the front wheels, ensuring that they turn freely.</li> </ul>
Before storage	<ul style="list-style-type: none"> <li>• Remove the safety key from the mower.</li> <li>• Perform all maintenance procedures listed above and thoroughly clean the mower.</li> <li>• Inspect the entire product for damaged, missing, or loose parts, replace or tighten the corresponding ones before storage.</li> </ul>
Annually	<ul style="list-style-type: none"> <li>• Check the parking brake pedal. Remove the safety key and set the parking pedal at the braking position. Manually push the mower forwards to see whether the mower can be moved or not. If it moves, have it serviced by a qualified service technician.</li> </ul>

# MAINTENANCE AND STORAGE

## GENERAL MAINTENANCE

- Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc. Insect repellent spray may damage plastic and painted surfaces. 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 cloths to dry the seat, control panel, etc., before you restart it or store it.



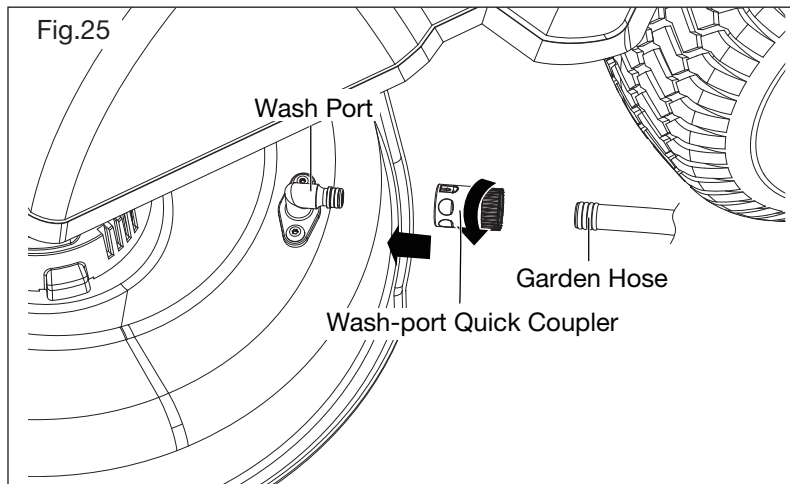
### WARNING:

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 can 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 (Fig.25)

**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.

1. Set the parking-brake pedal to the braking position. Refer to section "PARKING BRAKE SETTING" in this manual. Park on a flat level surface.
2. Adjust the mower deck height to the lowest. Refer to section "CUTTING-DECK HEIGHT ADJUSTMENT" in this manual.

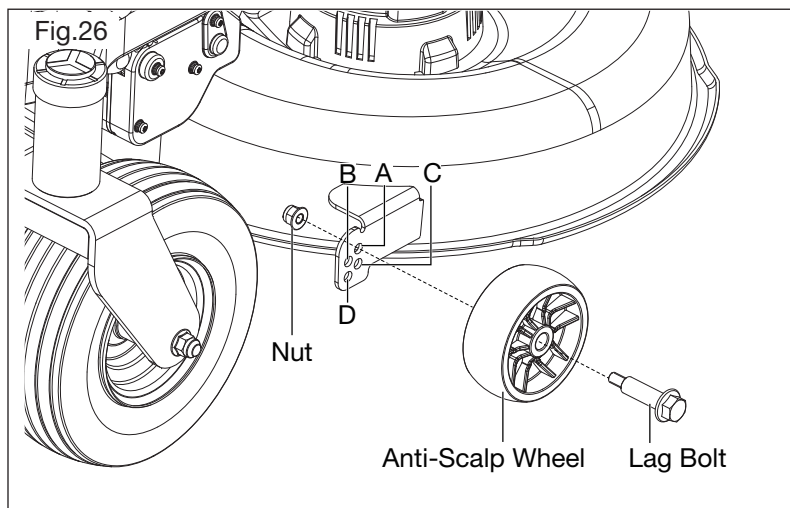


## MAINTENANCE AND STORAGE

3. Attach the supplied wash-port quick-coupler to garden hose.
4. Attach garden hose with quick-coupler to wash port on the mower deck. The wash port is on the left side of the mower deck.
5. Turn on the water.
6. 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.
7. Flush water under the deck for approximately one minute.
8. Disengage the mower blades by pushing the PTO switch downward.
9. Turn off the water and remove garden hose and quick-coupler from wash port.
10. Remove quick-coupler from garden hose and store for future use.
11. Turn off the mower completely. See section "STOPPING THE ELECTRIC ZERO TURN MOWER".

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

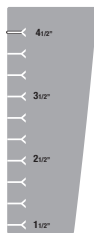
**NOTICE:** If the mower is not clean after one wash cycle, repeat the process until the deck is thoroughly cleaned.



### ADJUSTING THE ANTI-SCALP WHEELS (Fig. 26)

The anti-scalp wheels are designed to minimize the chance of scalping the lawn when mowing on rough, uneven terrain. After setting the cutting height, adjust the anti-scalp wheels so they extend below the deck but do not contact the ground.

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



- Position A: less than 2 in grass cutting height
- Position B: 2 – 3 in grass cutting height
- Position C: 3 – 4 in grass cutting height
- Position D: greater than 4 in grass cutting height

## MAINTENANCE AND STORAGE

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

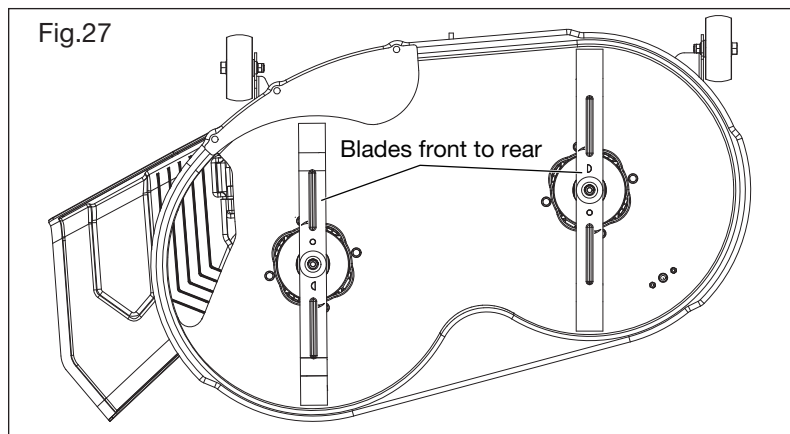
**NOTICE:** One 16 mm wrench and one 21 mm wrench are required to adjust the wheels. Neither wrench is included.

1. Park the mower on a level surface and set the parking brake.
2. Stop the motors and remove the safety key. Allow the cutting blades to come to a complete stop.
3. Raise the deck to the desired cutting height.
4. Use 16 mm wrench to stabilize the nut first and then loosen and remove the lag bolt on the other side with 21 mm wrench.
5. Move the anti-scalp wheel to the desired position. Then, tighten the lag bolt and nut securely with the wrenches.
6. Repeat with the other anti-scalp wheel, making sure both wheels are installed in the same position.

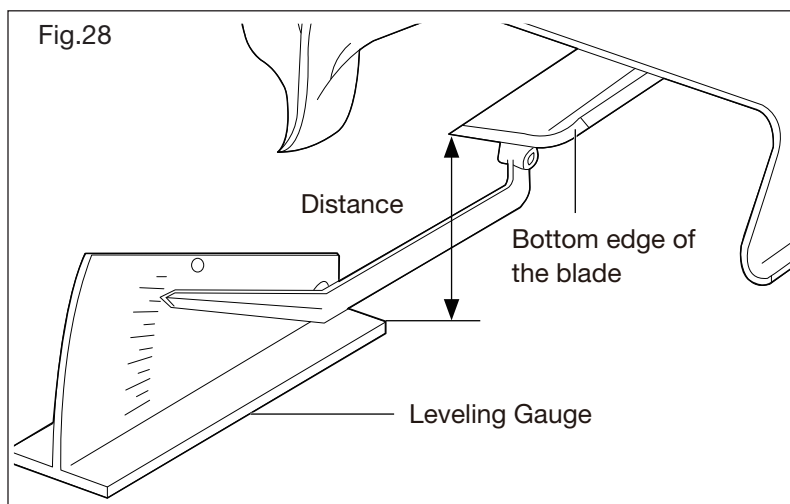
### To Make Front-to-Rear Adjustment

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

1. Position both the blades so that the ends point toward the front and back of the mower (Fig. 27).

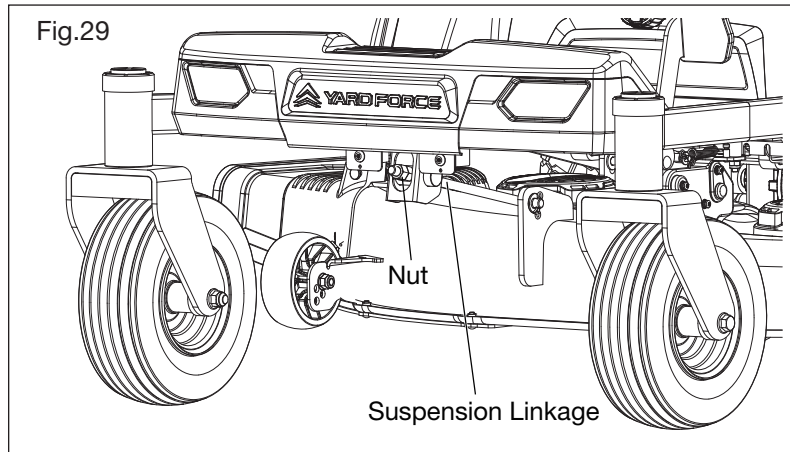


2. Measure the distance from the tip of one blade to the ground (see Fig. 28). For best results, the front tip of the blade should be from 1/8 in to 3/8 in (2mm to 10mm) lower than the rear tip.



## MAINTENANCE AND STORAGE

If front-to-rear adjustment is needed, use a 18 mm open-end wrench (not supplied) to adjust the two nuts on the suspension linkage (Fig. 29).



3. Measure again to verify that the front tip is now 1/8 in to 3/8 in (2mm to 10mm) lower than the rear tip. If not, continue to adjust and measure until they are.
4. Retighten the nuts.

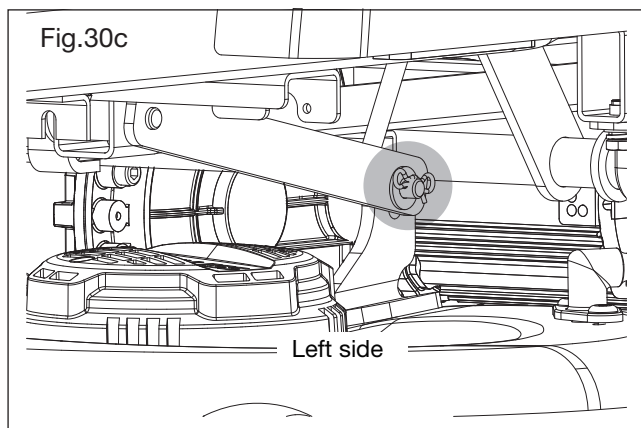
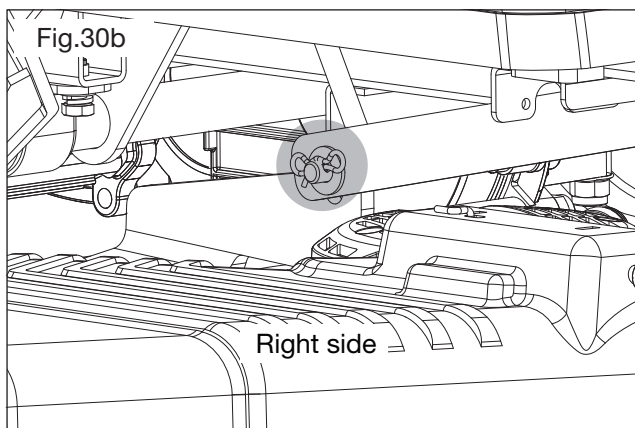
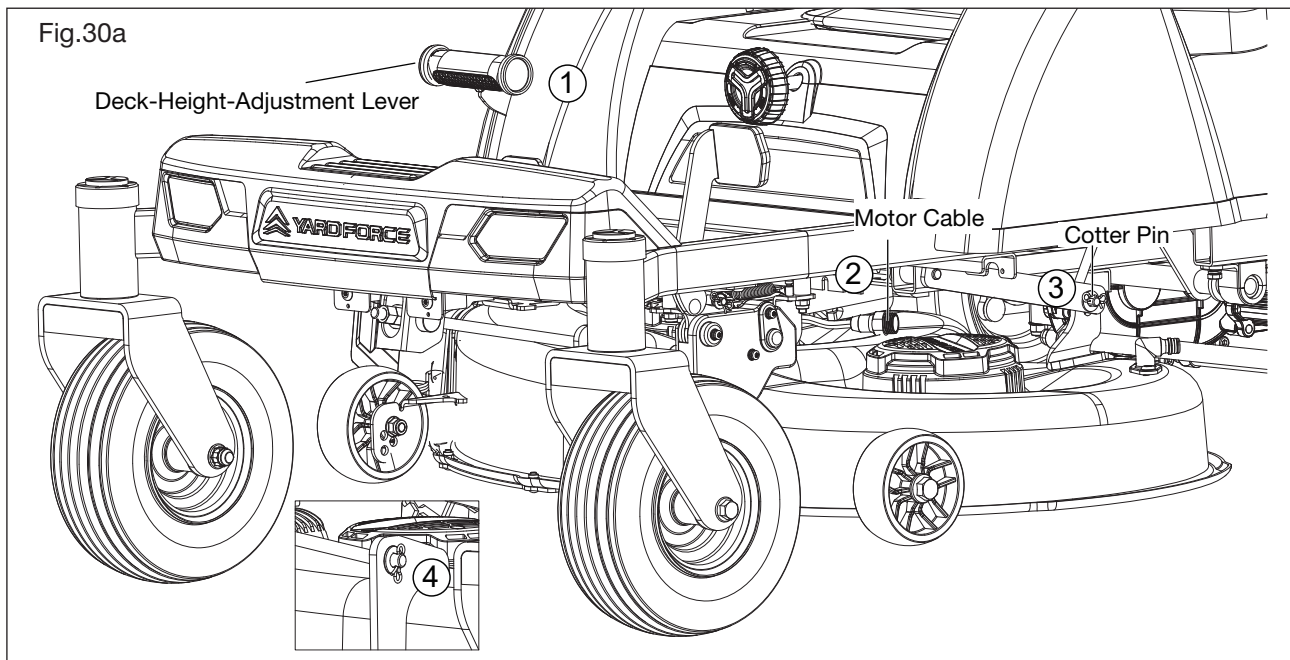
## MAINTENANCE AND STORAGE

### REMOVING THE MOWER DECK (Fig. 30a & b & c)



#### WARNING:

Make sure that the mower is properly secured and the parking brake is set before proceeding. Raise the deck to the HIGHEST cutting height to allow easier access to the blades.



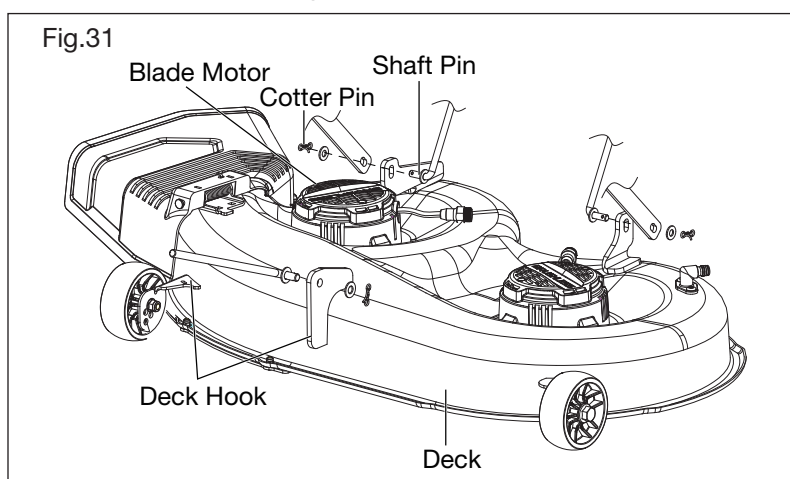
Follow below steps to remove the mower deck from the product first and then perform maintenance.

1. Park the mower on a level surface and set the parking brake.
2. Stop the motors and remove the safety key. Allow the cutting blades to come to a complete stop.
3. Adjust the deck-height-adjustment lever to the lowest cutting height position.
4. Disconnect both blade motor cables.
5. Place a rug or a mat (similar in size to that of the deck) under the deck to prevent the damage to the deck.

## MAINTENANCE AND STORAGE

6. Remove the cotter pins and push the shaft pins out. Save both sets for deck re-assembly.
7. Remove the cotter pin and washer then push the suspension linkage out to release it from the deck.
8. Push the deck sideways and remove it from under the mower (Fig. 31).
9. Clean the deck or replace the blade as directed in "REPLACING THE CUTTING BLADE" in this manual.
10. 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.



## REPLACING THE CUTTING BLADES

### To Remove 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.

**NOTICE:** The following tools (not included) are required for replacing the blade:

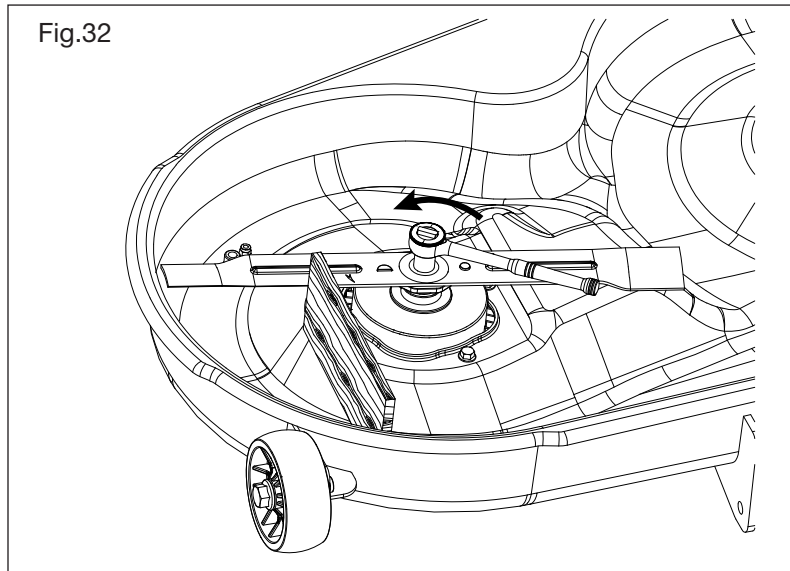
- 15 mm wrench
- Torque wrench with 15mm sockets

**Tools that make life easier:** Impact wrench with 15 mm sockets make the removing the blade bolts much easier.

1. Remove the mower deck as section "REMOVING THE MOWER DECK" shown in this manual.
2. Reverse the deck on the ground with blades facing upward.
3. Wedge a block of wood between the blade and mower deck to prevent the blade from turning.

## MAINTENANCE AND STORAGE

4. Use an 15 mm adjustable wrench or socket wrench (not included) to turn the blade nut counterclockwise to loosen it (Fig. 32).
5. Remove the blade nut, cone washer, blade adapter, and blade.



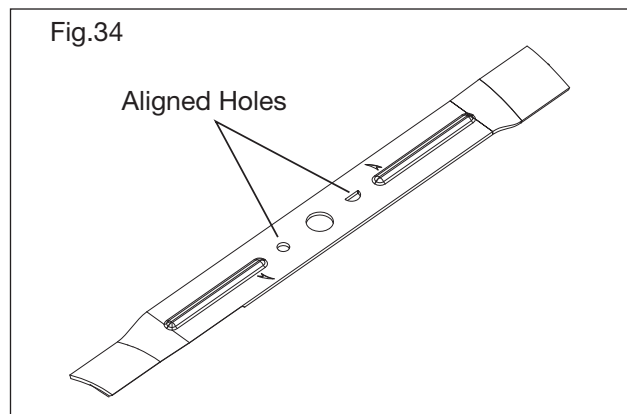
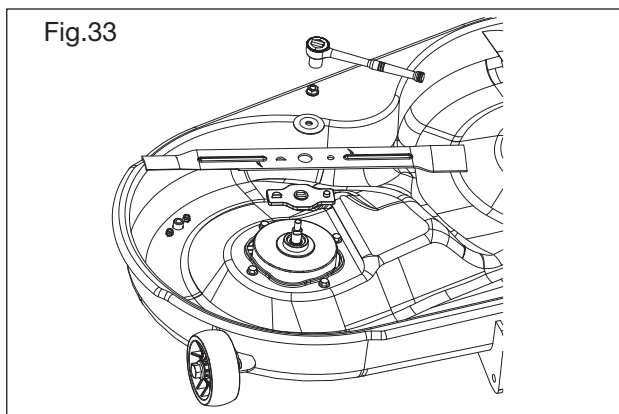
### To Install the Cutting Blade



#### WARNING:

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

**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. 33).



1. Place the new blade on the shaft against the corresponding blade posts. Ensure blade is properly seated with shaft going through center blade hole and the two blade posts inserted into their respective holes on the blade (Fig. 34).
2. Place the cone washer onto the blade, make sure the cone washer's opening against the blade flat surface.

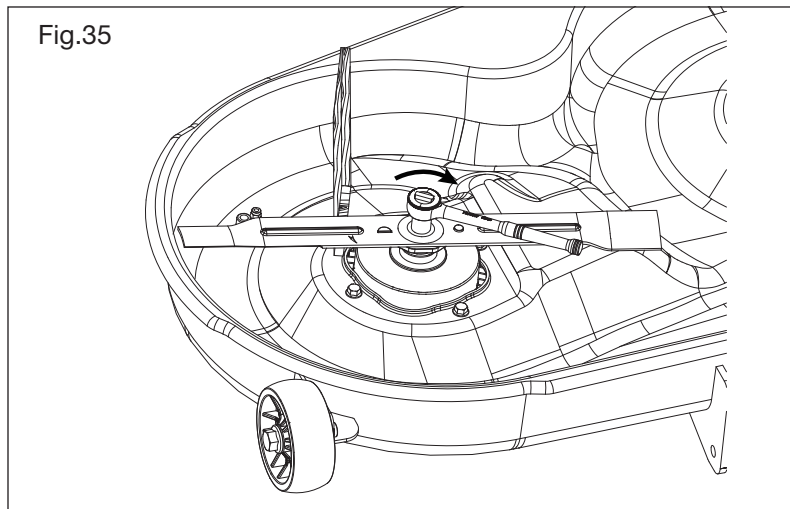
## MAINTENANCE AND STORAGE

3. Use a 15 mm torque wrench to tighten the nut clockwise. The recommended torque for the blade bolt is 50-53fy-lb (67-72 N.m) (Fig. 35).
4. Repeat the steps with the second blade, if needed.
5. 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 nut 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.



## CHECKING THE TIRE PRESSURE

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
	22 PSI (151.6 kpa)	18 PSI (124.1 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.

# MAINTENANCE AND STORAGE

## REPLACING THE WHEELS

**NOTICE:** The following tools (not included) are required for replacing the wheels:

- Automotive jack
- Jack Stand
- Wheel chocks
- 2pcs open-end wrench or adjustable wrench. Required size are 18 mm
- Torque wrench with 19 mm socket
- Flat-blade screwdriver



### **WARNING:**

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. 36.
2. Use the 18 mm wrench (not included) 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 wheel fork (Fig. 37). 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. 36). The recommended torque for the front wheel nut is 33-41ft-lb (45-55 N.m).

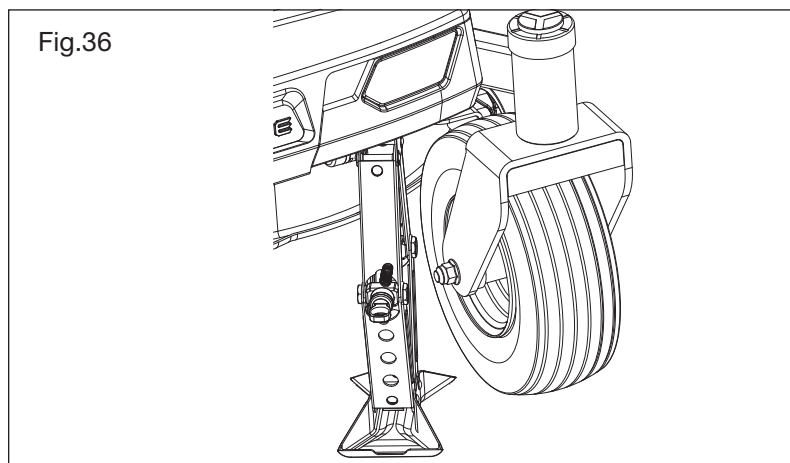
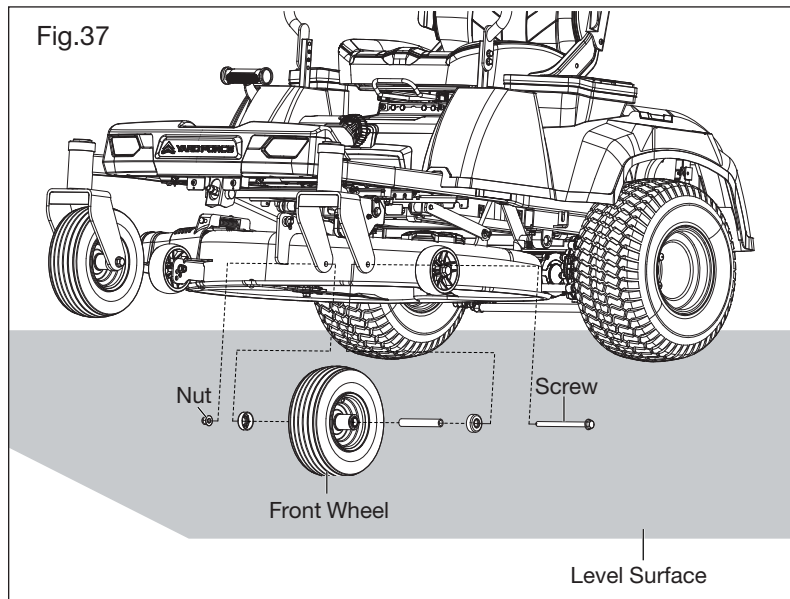


Fig.36



## MAINTENANCE AND STORAGE



### To Replace the Rear Wheel (Fig.39)

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. Restrain the movement of front wheels with wheel chocks.
2. Lift the affected side of the mower with an automotive jack at the jack point shown in Fig. 38.
3. Insert the jack stand underneath the mower's frame. Lower the automotive jack until the mower frame rests on the jack stand.
4. Use the 19 mm socket wrench (not included) to loosen the four lug nuts (one turn for each nut).
5. Remove the four lug nuts 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.
6. Pull the wheel off from the wheel studs. Replace the wheel.
7. 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. 40).
8. Lower the mower by reversing the steps 2 & 3. Tighten the lug nuts in the order shown in Fig. 40 using a torque wrench. The recommended torque for the rear wheel lug nuts is 68-75 ft-lb (92-102 N.m).

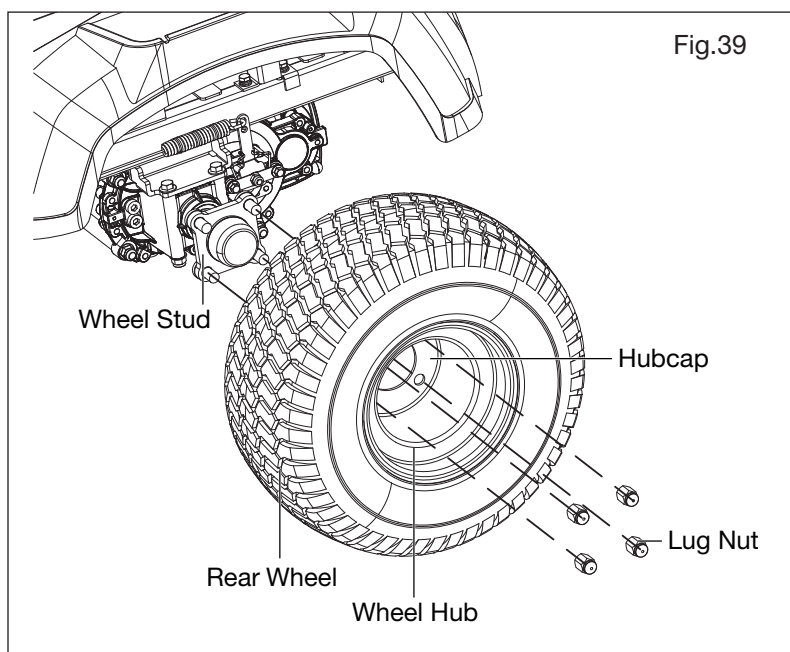
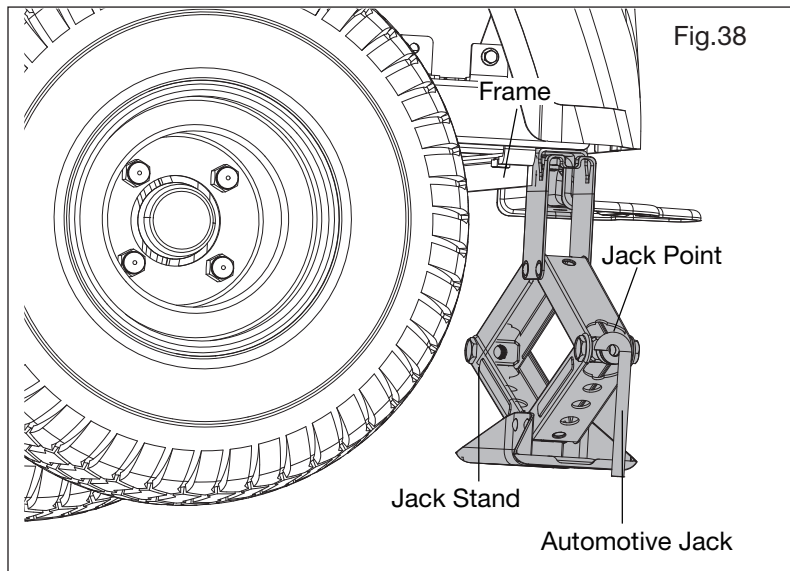


### WARNING:

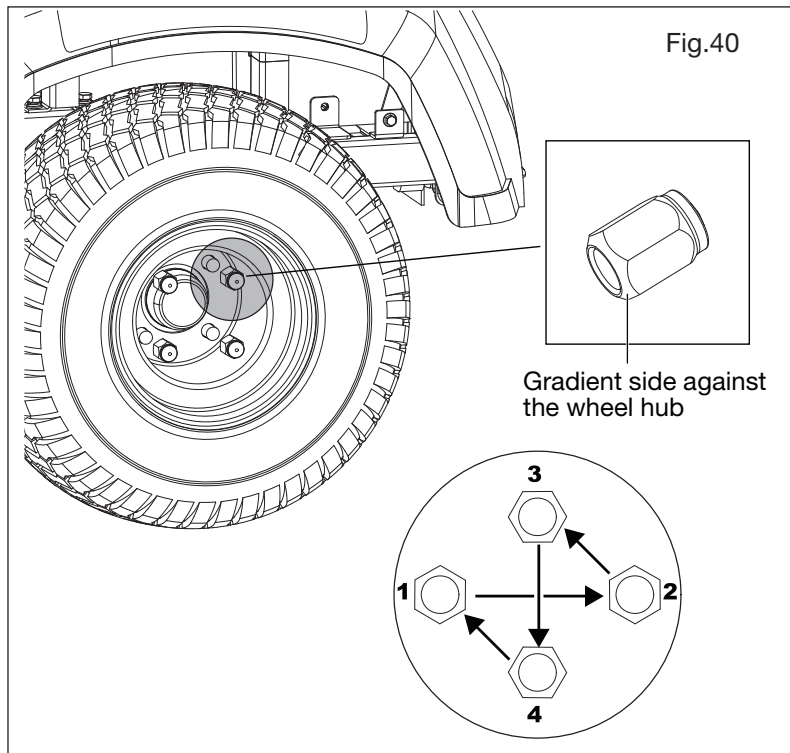
Particular attention must be given to tightening the wheel nuts, especially the drive-wheel lug nut. Failure to correctly torque these items may result in the loss of a wheel, which can cause serious damage or personal injury.

## MAINTENANCE AND STORAGE

**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.



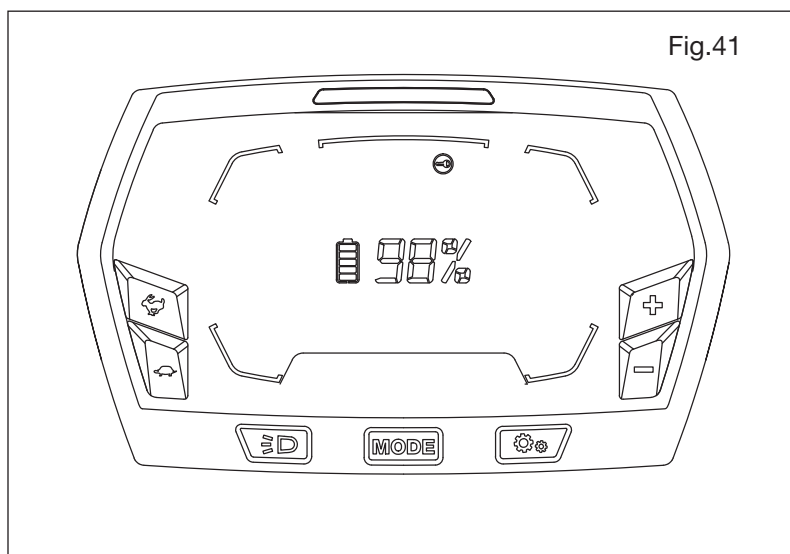
## MAINTENANCE AND STORAGE



### CALIBRATE THE MOWER DRIVE TRACKING

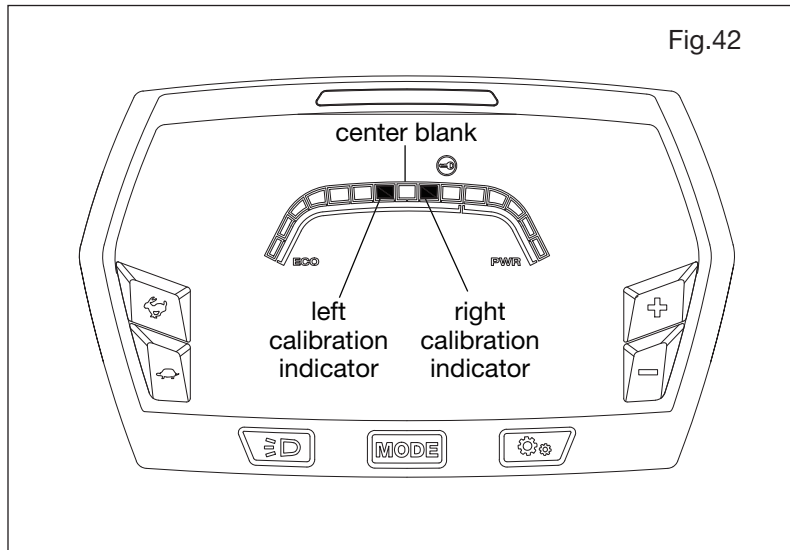
If the mower is not tracking straight when both steering levers are pushed full forward, first check the air pressure in both rear wheel tires. If the tire pressures are set to the recommendation in section “CHECKING THE TIRE PRESSURE” in this manual, calibrate the mower tracking system as follows:

1. Set the parking-brake pedal in the braking position.
2. Press the start/stop button briefly and the LCD screen will show “Fuel Gauge” (Fig.41).

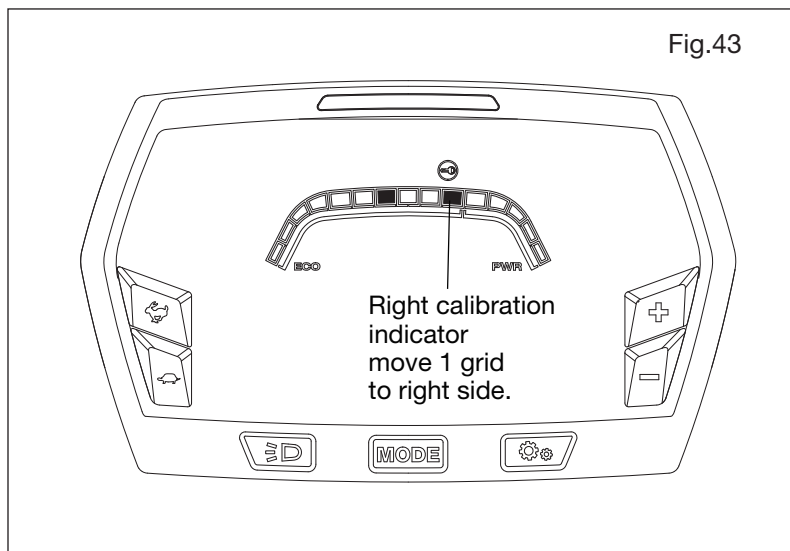


## MAINTENANCE AND STOARGE

3. Press and hold the driving-mode button and the calibration button simultaneously for more than 3 seconds to enter the calibration interface. The LCD screen will show the calibration bar with two calibration indicators on both sides of the center blank (Fig.42).



4. When the mower drives to the left, the right wheel speed of the mower should be calibrated; press the "MODE" button briefly to make the right calibration indicator flash. Then press the driving-speed-adjustment button "+". Press once, the calibration indicator will move to the right one grid from original position and continue to flash. This will decrease the right wheel speed. To increase the wheel speed, press the driving speed adjustment button "-" to move the indicator back. (Fig.43)



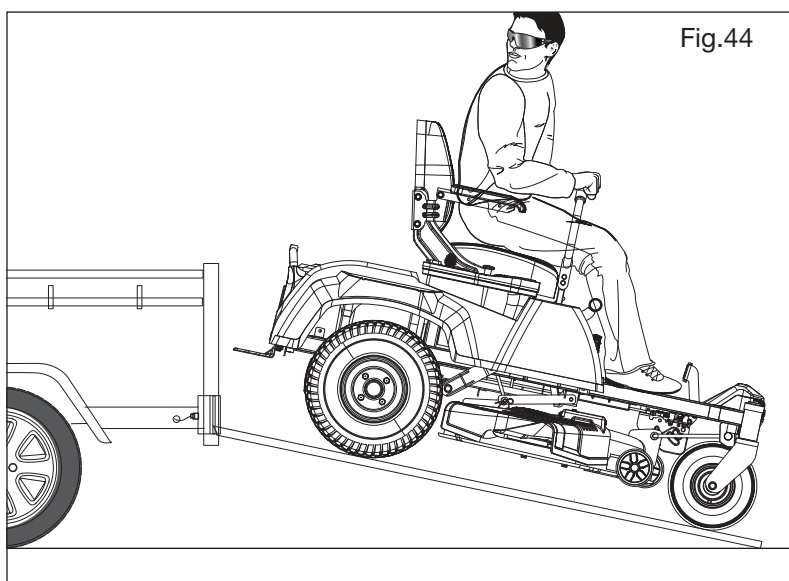
5. When the mower drives to the right, the left wheel speed of the mower should be calibrated. Press the "MODE" button to set the left calibration indicator flash. Then press the driving speed adjustment button "+". Press once, the calibration indicator will move to the left one grid from original position and continues to flash. This will decrease the left wheel speed. To increase the wheels speed press the driving speed adjustment button "-" to move the indicator back.
6. When the calibration is finished, press the driving-mode button and the calibration button simultaneously for more than 3 seconds to save and quit the calibration interface.  
Restart the mower and test if the mower is tracking straight. Otherwise, repeat the above steps until the mower is tracking straight.

## MAINTENANCE AND STORAGE

### TRANSPORTING THE MOWER

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.44).
5. Stop the mower and set the park brake pedal.
6. Turn off the start/stop button and remove the safety key.
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.

- Fully charge the mower before storage.  
NOTE: It is recommended to fully charge the mower at least once every 6 months.
- 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.

## TROUBLESHOOTIN

PROBLEM	CAUSE	SOLUTION
<p>The electric zero turn mower fails to drive when the two steering levers are pushed forward or backward at the beginning.</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <span style="font-size: 0.9em;">Steering level icon blinks</span> </div>	<ul style="list-style-type: none"> <li>The parking brake pedal is set in the braking position.</li> <li>The steering levers are not in the open position when starting the mower.</li> <li>The operator is not sitting on the seat.</li> <li>The seat switch is not connected correctly.</li> </ul>	<ul style="list-style-type: none"> <li>Fully depress the parking brake pedal to release it from the braking position.</li> <li>Return the steering levers to the open position and restart the mower.</li> <li>Only when the operator correctly sits on the seat, can he operate the mower.</li> <li>Disassemble the seat in the reverse order of the instructions in section <b>"TO INSTALL THE SEAT"</b> in this manual to inspect the seat switch connection. Reassemble the seat and follow the instructions in <b>"STARTING THE ELECTRIC ZERO TURN MOWER"</b> to restart the mower to see if the mower can be started. If not, contact a qualified service technician for repair.</li> </ul>
<p>The electric zero turn mower stops driving.</p>	<ul style="list-style-type: none"> <li>Steering levers require a "reset".</li> <li>The electric controlling components of the steering levels are failed.</li> <li>The seat switch got disconnected during driving on a rough terrain.</li> </ul>	<ul style="list-style-type: none"> <li>Return the steering levers to the open position and restart the mower.</li> <li>Contact a qualified service technician for repair.</li> <li>Disassemble the seat in the reverse order of the instructions in section <b>"TO INSTALL THE SEAT"</b> in this manual to inspect the seat switch connection. Reassemble the seat and follow the instructions in <b>"STARTING THE ELECTRIC ZERO TURN MOWER"</b> to restart the mower to see if the mower can be started. If not, contact a qualified service technician for repair.</li> </ul>
<p>The driving speed/driving mode cannot be adjusted during driving.</p>	<ul style="list-style-type: none"> <li>This is a feature of the electric zero turn mower for safe driving.</li> </ul>	<ul style="list-style-type: none"> <li>The function will activate only when the mower wheels are stopped and the steering levers are open.</li> </ul>
<p>The electric zero turn mower fails to start the blades when the PTO switch is engaged.</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <span style="font-size: 0.9em;">PTO Switch icon blinks</span> </div>	<ul style="list-style-type: none"> <li>The PTO switch is not pushed down when the mower is stopped last time.</li> <li>The mower is overloaded at the moment the blades starting, resulting in motor self-protection.</li> </ul>	<ul style="list-style-type: none"> <li>Push the PTO switch downward and then pull up to restart the mower's blades.</li> <li>Start the mower grass cutting in lower blade speed first and until the blades are getting succeed rotation, do not accelerate the blade speed as needed.</li> </ul>

## TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The blades stop working during grass cutting.	<ul style="list-style-type: none"> <li>• The mower is overloaded.</li> <li>• The mower deck is clogged with grass and debris.</li> <li>• The mower is overheated.</li> <li>• The battery pack(s) in the mower's battery compartment is overheated</li> <li>• The mower is in Limp-Home mode.</li>   <li>• The blades have hit a foreign object, resulting in motor self-protection.</li> </ul>	<ul style="list-style-type: none"> <li>• Raise the deck cutting height or slowing down the driving speed to reduce the load of the mower.</li> <li>• Clean the mower deck and make certain that the blades have freedom of movement.</li> <li>• 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.</li> <li>• When the mower is in Limp - Home mode, the blades are automatically switched off. The operator should stop working and go to the battery charging area as soon as possible.</li> <li>• Push the PTO switch downward to stop the blades. Turn off the mower and inspect for damage before restarting.</li> </ul>
The beeping indicator continues sounding.	<ul style="list-style-type: none"> <li>• The mower is in Limp-home mode.</li> <li>• Operator is off the seat without setting the park-brake pedal at the braking position.</li> </ul>	<ul style="list-style-type: none"> <li>• Stop working and go to the battery charging area as soon as possible.</li> <li>• Set the park brake pedal in the braking position before leaving the mower.</li> </ul>
The LCD screen fails to be illuminated with all icons on.	<ul style="list-style-type: none"> <li>• The press and hold time on the start/stop button is less than 1 second.</li> </ul>	<ul style="list-style-type: none"> <li>• The LCD screen will turn on after the start/stop button has been held down for 1 seconds.</li> </ul>
The mower cuts unevenly, with significant height difference front to rear.	<ul style="list-style-type: none"> <li>• The blades are dull.</li> <li>• The blades are bent.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace the cutting blade as instructed in this manual.</li> <li>• Replace the bent cutting blade following the instructions in section <b>"REPLACING THE CUTTING BLADES"</b>.</li> </ul>
The actual grass cutting height is not aligned with the claimed height.	<ul style="list-style-type: none"> <li>• The mower deck nuts are loosened on the suspension linkage (see Fig. 29).</li> <li>• Tire pressure is low or uneven.</li> <li>• The mower deck is damaged or seriously worn.</li> </ul>	<ul style="list-style-type: none"> <li>• Follow the instructions in section <b>"LEVELING THE MOWER DECK"</b> to make correct front-to-rear adjustment for the mower deck and securely tighten the two nuts on the suspension linkage.</li> <li>• Correct the tire pressure.</li> <li>• Follow the instructions in section <b>"REMOVING THE MOWER DECK"</b> to have mower deck replacement.</li> </ul>

## TROUBLESHOOTING







PROBLEM	CAUSE	SOLUTION
The mower does not mulch properly.	<ul style="list-style-type: none"> <li>Wet grass clippings are sticking to the underside of the deck.</li> <li>The mower is set to cut too much grass at once.</li> </ul>	<ul style="list-style-type: none"> <li>Wait until the grass dries before mowing.</li> <li>Raise the deck cutting height.</li> </ul>
There is excessive vibration.	<ul style="list-style-type: none"> <li>The cutting blades are loose.</li> <li>The blades are bent.</li> <li>The mower deck nuts are loosened on the suspension linkage (see Fig.29).</li> <li>The mower is set to cut too much grass at once.</li> </ul>	<ul style="list-style-type: none"> <li>Tighten the blade bolt to the recommended torque 50-53 ft-lb (67-72 N.m).</li> <li>Replace the bent cutting blade following the instructions in section <b>"REPLACING THE CUTTING BLADES"</b>.</li> <li>Use a 18 mm open-end wrench (not supplied) to tighten the two nuts on the suspension linkage.</li> <li>Raise the deck cutting height.</li> </ul>
There are grass or debris remaining on the ground after mowing.	<ul style="list-style-type: none"> <li>The mower is set to cut too much grass at once when the grass is tall.</li> <li>The grass is wet.</li> <li>The driving speed is high.</li> <li>The blade speed is low.</li> </ul>	<ul style="list-style-type: none"> <li>Begin with a high cutting height and reduce it until the desired mowing result is attained. Grass over 6 inches tall should be mowed twice, at successively lower cutting heights.</li> <li>Do not mow when the grass is wet until the grass dries.</li> <li>Slow down the driving speed.</li> <li>Increase the blade speed gradually.</li> </ul>
Short running time of the mower with included battery.	<ul style="list-style-type: none"> <li>Grass conditions and cutting-height setting will greatly affect the battery run time. The claimed run time is based on a light load condition.</li> </ul>	<ul style="list-style-type: none"> <li>Raise the deck cutting height and slow down the blade speed to reduce the cutting load.</li> </ul>
The mower is not tracking straight.	<ul style="list-style-type: none"> <li>The tire pressures for the left and right rear wheels are different.</li> </ul>	<ul style="list-style-type: none"> <li>Check and adjust the air pressure in both rear wheel tires, according to the recommendation in section <b>"CHECKING THE TIRE PRESSURE"</b> in this manual.</li> </ul>
The parking brake pedal cannot not be released from the braking position or is slow to spring back.	<ul style="list-style-type: none"> <li>There may be debris or dirt getting inside the parking braking pedal.</li> </ul>	<ul style="list-style-type: none"> <li>Open the parking brake pedal box to thoroughly clean the box inside and close it. Resetting the parking pedal to see whether the problem is solved. If not, contact a qualified service technician for repair.</li> </ul>








## TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The mower cannot be charged via charging port.	<ul style="list-style-type: none"> <li>• The plug of the charger is not correctly inserted into the charging port on the mower.</li> <li>• There is no power in the wall outlets.</li> <li>• Charger malfunction.</li> <li>• The charger port on the mower is defective.</li> </ul>	<ul style="list-style-type: none"> <li>• Reconnect the charger plug to see whether the mower can be charged normally. Be sure the plug and door tab are fully connected.</li> <li>• No action is needed. Wait until the power recovers.</li> <li>• Contact a qualified service technician for inspection and have charger repaired if needed.</li> <li>• Contact a qualified service technician for repair.</li> </ul>
The charging time via the mower charging port is too long.	<ul style="list-style-type: none"> <li>• The charger is not suitable.</li> </ul>	<ul style="list-style-type: none"> <li>• Use recommended charger for charging the electric zero turn mower directly.</li> </ul>
The battery cannot be fully charged via the mower charging port.	<ul style="list-style-type: none"> <li>• The battery or the charger failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Have the charger and/or the battery pack serviced or replaced.</li> </ul>
The mower cannot be started after cleaning.	<ul style="list-style-type: none"> <li>• Improper cleaning, such as water getting on the electric components, LCD screen etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Follow the instructions in section “<b>GENERAL MAINTENANCE</b>” and “<b>CLEANING THE MACHINE</b>” to clean the mower correctly.</li> <li>• If the mower caught in rain accidentally, leave it for over 12 hours to dry or use compressed air to dry it.</li> </ul>
It is easy for the mower to be clogged.	<ul style="list-style-type: none"> <li>• The mower deck is clogged with grass and debris.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the mower deck after each use, following the section “<b>Using Wash Port to Clean Mower Deck</b>”.</li> </ul>
The mower easily loses traction when climbing up on the slope.	<ul style="list-style-type: none"> <li>• The tires of the rear wheels are worn.</li> </ul>	<ul style="list-style-type: none"> <li>• Seek local service to replace the wheel tires or when the wheel itself is damaged replace the rear wheel following the instructions in section “<b>REPLACING THE WHEELS</b>”.</li> </ul>
When the mower is stopped on a slope with the parking brake pedal pressed, the mower can slide downward the slope.	<ul style="list-style-type: none"> <li>• The brake components are excessively worn due to improper operation of the mower.</li> </ul>	<ul style="list-style-type: none"> <li>• Contact a qualified service technician for repair.</li> </ul>

## ERROR CODE & STATUS INDICATOR FORM

LCD Display	Description	Error code on LCD	LED Status Indicator	Beeper	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 1 seconds to turn on the mower.
	The overload indicator blinks and left drive motor stopped	E33	Solid red	No	The drive motor is overloaded.	Reset the steering lever
	The overload indicator blinks and right drive motor stopped	E83				
	The overload indicator blinks and left blade motor stopped	E43	Solid red	No	The blade motor is overloaded.	Push the PTO switch downward and restart the mower's blades. Raise the deck cutting height or slow the driving speed to reduce the load of the mower.
	The overload indicator blinks and right blade motor stopped	E93				
	The icon of the thermometer blinks and blade motor stopped	n/a	Solid green	Beep 5 times	The mower is over- heated.	Push the PTO switch downward and restart the mower's blades 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 icon of the thermometer blinks and blade motor, drive motor all stopped	E12	Solid Red	Beep 5 times	The mower is over- heated.	Switch off and switch on the mower to cancel the thermometer blink; 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 icon of the thermometer blinks and blade motor, drive motor all stopped	E13	Solid Red	Beep 5 times	Temperature detector is fault	Contact a qualified service technician for repair

## ERROR CODE & STATUS INDICATOR FORM

LCD Display	Description	Error code on LCD	LED Status Indicator	Beeper	Cause	Solution
	Brake pedal icon is displayed on the LCD	n/a	Solid green	No	The parking brake pedal is set at the braking position.	Release it before starting the mower.
	Brake pedal icon blink on the LCD	n/a	Solid green	continue to sound	Operator leave off the seat without setting the parking brake pedal	Set the parking brake pedal at the braking position
	Seat sensor icon blink on the LCD	n/a	Solid green	continue to sound	The operator leaves the seat or seat switch is disconnected.	If with the operator seated on the seat, 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 and left blade motor stopped	E41-E46	Solid red	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 dis-engage the deck motor. Please see "TROUBLESHOOTING" section in this manual for reference.
	PTO Switch icon blinks and right blade motor stopped	E91-E96				
	Steering lever icon blinks	n/a	Solid Green	No	The driving motor was interrupted in operation and the steering levers are not set to open position.	Before restart the mower, move the steering levers to the open position. Please see "TROUBLESHOOTING" section in this manual for reference.
see "Fault code"	Working hour data keeps no change, and the battery display changes to 0%	E51	Solid red	No	PCBA of communication failure	Contact a qualified service technician for repair.

## ERROR CODE & STATUS INDICATOR FORM

LCD Display	Description		Error code on LCD	LED Status Indicator	Beeper	Cause	Solution
see "Fault code"	Left driving motor does not rotate.	PCBA controlled left driving motor fails.	E31	Solid red	No	PCBA failure	Have repairs performed by a qualified service technician.
		Plug (Six pins, signal wire) connecting the left driving motor with the corresponding PCBA is loosened.	E36	Solid red	No	Loose connection	Have repairs performed by a qualified service technician.
see "Fault code"	Right driving motor fails in rotation	PCBA controlled right driving motor fails.	E81	Solid red	NO	PCBA failure	Have repairs performed by a qualified service technician.
		Plug (Six pins, signal wire) connecting the right driving motor with the corresponding PCBA is loosened.	E86	Solid red	NO	Loose connection	Have repairs performed by a qualified service technician.
see "Fault code"	Left blade motor fails in rotation	PCBA controlled left blade motor fails	E41	Solid red	NO	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.	E46	Solid red	NO	Loose connection	Inspect the blade firstly. If it is loosened, use a 15 mm torque wrench to tighten the bolt clockwise. The recommended torque for the blade nut is 50-53 ft-lb (67-72 Nm). Otherwise, have repairs performed by a qualified service technician.

<b>LCD Display</b>	<b>Description</b>		<b>Error code on LCD</b>	<b>LED Status Indicator</b>	<b>Beeper</b>	<b>Cause</b>	<b>Solution</b>
see "Fault code"	Right blade motor fails in rotation	PCBA controlled right blade motor fails	E91	Solid red	NO	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.	E96	Solid red	NO	Loose connection	Inspect the blade firstly. If it is loosened, use a 15 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.

# WARRANTY

## USA WARRANTY

### YARD FORCE LIMITED WARRANTY

#### Product Warranty

Please keep your original purchase receipt in a safe place as proof of purchase. Warranty coverage for This product must be verified by the original purchase receipt. The warranty period begins on the day the product was purchased from an authorized retailer of Yard Force products. Warranty coverage only applies to the original purchaser and is not transferable. Warranty coverage is only provided on products purchased and used in the USA and Puerto Rico from authorized Yard Force retailers. Products purchased or used outside of the USA and Puerto Rico are not covered by this warranty.

#### (5) Five-Year Warranty from The Date of Purchase – Drivetrain and Chassis

#### (3) Three-Year Warranty from The Date of Purchase – Battery and Charger

The Z42-562 has a Five-Year Limited Warranty from the date of purchase against manufacturer defects for residential use only, excluding the battery and charger. Commercial use voids the warranty. This warranty does not cover accidental damage, unreasonable use, normal wear and tear, neglect or non-compliance with the Operating, Safety and Maintenance Instructions. All service, outside of normal maintenance as described in this manual, must be done by an authorized service technician. Any unauthorized service or changes to the original configuration of this product will void the warranty. All parts and accessories used on and with this product must be manufacturer/or and authorized by Merotec Inc.

#### (90) Ninety-Day Warranty – Accessories

The accessories included with the Z42-562; including the knobs, hitch pins, blades, tires, brakes, etc., and other similar parts are warranted against manufacturer defects for residential use only for a period of 90 days from date of purchase.

Warranty does not cover loss of use or other consequential damages arising from any of the above, nor does it cover repairs made or attempted by unauthorized persons. This warranty is void if the product is used for commercial, rental or industrial purposes. Certain parts, attachments and accessories are subject to normal wear and tear and are excluded from the warranty.

### Service and Warranty Claims Process

Contact the Yard Force Customer Service toll-free at **(866) 902-9690 Monday-Friday between 8:30 AM and 5:00 PM** Eastern Time for service and warranty support.

Yard Force USA Service Support agents can help you troubleshoot problems over the phone to get you back up and running as quickly as possible. In the situation where service or warranty inspection is needed, please follow these steps:

1. Contact Yard Force Customer Service at **(866) 902-9690 or support@merotecusa.com Monday-Friday between 8:30 AM and 5:00 PM Eastern Time.**
2. Send in proof-of-purchase and serial number (if applicable) to confirm warranty coverage.
3. If service or a warranty evaluation is requested, Yard Force USA will provide an RGA number that should be used in all communications with Yard Force USA and if necessary, a list of local authorized service centers to bring your lawn mower to for evaluation and repair.
4. All shipments to Yard Force USA must have an RGA number. Any shipment received that does not have an RGA number clearly marked on the outside of the box will be refused.
5. All shipments must be sent pre-paid; Yard Force USA does not pay for any shipping or transportation costs for service or warranty evaluation. Yard Force USA is not responsible for any packages that are lost by carrier. We recommend that shipments are made by a carrier that provides tracking and delivery confirmation.

For more information or to ask questions, please call toll-free (866) 902-9690 or support@merotecusa.com Monday-Friday between 8:30 AM and 5:00 PM Eastern Time.



## Need Help?

Please do not return the product to your place of purchase yet. We're here to help and take care of all your needs.

### Contact our customer service department for help with:

- Product assembly or use
- Missing or damaged parts
- Troubleshooting
- Replacement parts and accessories

You can submit a support request by scanning the QR code on this page, or by visiting:  
[www.YardForceUSA.com/contact-support](http://www.YardForceUSA.com/contact-support)

Scan Code to connect with Yard Force Support



**1-866-902-9690 (US)**  
**1-833-818-4111 (CA)**



**[www.YardForceUSA.com](http://www.YardForceUSA.com)**

**Register your product today to maintain warranty coverage and stay up to date with information on the use, care, maintenance and service of your product.**

**Register online today at:**

**[www.yardforceusa.com/product-registration](http://www.yardforceusa.com/product-registration)**



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Part Number: Z42-562-MAN-A  
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