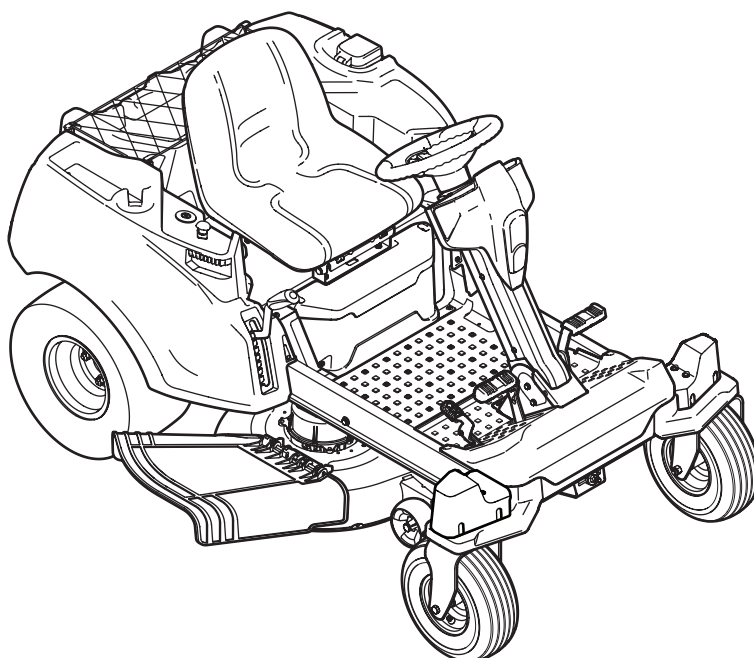


Cub Cadet[®]

OPERATOR'S MANUAL



RZT-S Zero

⚠ WARNING

**READ AND FOLLOW ALL SAFETY RULES AND INSTRUCTIONS IN THIS MANUAL
BEFORE ATTEMPTING TO OPERATE THIS MACHINE.
FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.**

CUB CADET LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

Thank You

Thank you for purchasing a Cub Cadet Electric Zero-Turn tractor. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual prior to operating the equipment. It instructs you how to safely and easily set up, operate and maintain your machine. Please be sure that you, and any other persons who will operate the machine, carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

All information in this manual is relative to the most recent product information available at the time of printing. Review this manual frequently to familiarize yourself with the machine, its features and operation. Please be aware that this Operator's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. Cub Cadet LLC reserves the right to change product specifications, designs and equipment without notice and without incurring obligation.

If you have any problems or questions concerning the machine, phone your local Cub Cadet dealer or contact us directly. Cub Cadet's Customer Support telephone numbers, website address and mailing address can be found on this page. We want to ensure your complete satisfaction at all times.

Throughout this manual, all references to *right* and *left* side of the machine are observed from the operating position.

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Record Product Information

Before setting up and operating your new equipment, please locate the model plate on the equipment and record the information in the provided area to the right. You can locate the model plate by standing at the left side of the tractor, pivoting the seat forward and looking down at the seat frame. This information will be necessary, should you seek technical support via our web site or with your local Cub Cadet dealer.

MODEL NUMBER

--	--	--	--	--	--	--	--	--	--	--

SERIAL NUMBER

--	--	--	--	--	--	--	--	--	--	--

Product Registration and Customer Support

Please register your product on our website, www.cubcadet.com.

If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this machine, you can seek help from the experts. Choose from the options below:

◇ Visit us on the web at www.cubcadet.com



See How-to Maintenance and Parts Installation Videos at www.cubcadet.com/tutorials

◇ Locate your nearest Cub Cadet Dealer at (877) 282-8684

◇ Write to Cub Cadet LLC • P.O. Box 361131 • Cleveland, OH • 44136-0019



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

CALIFORNIA PROPOSITION 65



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



DANGER: This machine was built to be operated according to the safe operation practices in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating fingers, hands, toes and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.



WARNING: When using electric tractors, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury. These basic precautions include the following pages:

READ ALL INSTRUCTIONS



48 Volt Battery System

Servicing requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For repair service take the tractor to your nearest authorized service dealer. Always use original equipment manufacturer's (OEM) replacement parts when servicing.

General Operation

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. This machine is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times. This machine has been designed to perform one job: to mow grass. Do not use it for any other purpose.
4. Never allow children under 14 years of age to operate this machine. Children 14 and over should read and understand the instructions and safe operation practices in this manual and on the machine and should be trained and supervised by an adult.
5. Never allow adults to operate this machine without proper instruction.
6. Do not charge or operate the tractor in the rain or in wet areas.
7. In case of a system fault or a complete loss of battery power the tractor can free-wheel. Depress the brake pedal to maintain control and stop the unit. Restart the tractor. If the problem persists, contact your service dealer.
8. Do not mow on wet grass. Reduced traction could cause sliding.
9. Only responsible individuals who are familiar with these rules of safe operation should be allowed to use this machine.
10. To help avoid blade contact or a thrown object injury, keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
11. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys, and other foreign objects which could be picked up and thrown by the blade(s). Thrown objects can cause serious personal injury.

12. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like. Also, avoid discharging material against a wall or obstruction which may cause discharged material to ricochet back toward the operator.
13. Always wear safety glasses or safety goggles during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
14. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Loose fitting clothes and jewelry can be caught in movable parts. Never operate this machine in bare feet or sandals.
15. Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without the discharge cover in its proper place.
16. Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
17. A missing or damaged discharge cover can cause blade contact or thrown object injuries.
18. Stop the blade(s) when crossing gravel drives, walks, or roads and while not cutting grass.
19. Watch for traffic when operating near or crossing roadways. This machine is not intended for use on any public roadway.
20. Do not operate the machine while under the influence of alcohol or drugs.
21. Mow only in daylight or good artificial light.
22. Never carry passengers.
23. Back up slowly. Always look down and behind before and while backing to avoid a back-over accident. Be aware and pay attention to the safety system function that stops power to the blades when driving in reverse. If not functioning properly, contact an authorized dealer for safety system inspection and repair.
24. Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excessive speed.
25. Stop the tractor, disengage blade(s), set parking brake and wait until the blade(s) come to a complete stop before unclogging chute, removing any grass or debris, or making any adjustments.
26. Never leave a powered machine on and unattended. Always stop tractor, turn off blade(s), set parking brake and remove key before dismounting.
27. Use extra care when loading or unloading the machine into a trailer or truck. This machine should not be driven up or down ramp(s), because the machine could tip over, causing serious personal injury. The machine must be pushed manually on ramp(s) to load or unload properly.
28. Do not turn key off and coast downhill.
29. Check overhead clearances carefully before driving under low hanging tree branches, wires, door openings etc., where the operator may be struck or pulled from the machine, which could result in serious injury.
30. Do not attempt to mow through unusually tall, dry grass (e.g., pasture) or piles of dry leaves. Dry grass or leaves may build up on the mower deck presenting a potential fire hazard.
31. Use only accessories and attachments approved for this machine by the machine manufacturer. Read, understand and follow all instructions provided with the approved accessory or attachment.
32. Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
33. If situations occur which are not covered in this manual, use care and good judgment. Contact your customer service representative for assistance.

Slope Operation

Slopes are a major factor related to loss of control and tip-over accidents which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

For your safety, use the slope gauge included as part of this manual to measure slopes before operating this machine on a sloped or hilly area. If the slope is greater than 15 degrees as shown on the slope gauge, do not operate this machine on that area or serious injury could result.

Do:

1. Mow across slopes, not up and down. Exercise extreme caution when changing direction on slopes.
2. Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
3. Use slow speed. Choose a low enough speed so that you will not have to stop while on the slope. Avoid starting or stopping on a slope. If the tires are unable to maintain traction, disengage the blades and proceed slowly and carefully straight down the slope.
4. Use extra care with any attachments. These can change the stability of the machine.
5. Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid acceleration or deceleration could cause the front of the machine to lift and rapidly flip over backwards, which could cause serious injury.

Do Not:

1. Do not turn on slopes unless necessary; then turn slowly uphill and use extra care while turning.
2. Do not mow near drop-offs, ditches or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff, ditch, or if an edge caves in.
3. Do not try to stabilize the machine by putting your foot on the ground.
4. Do not operate the tractor in the rain or in wet areas.
5. Do not mow on wet grass. Reduced traction could cause sliding.

6. Do not tow heavy pull behind attachments (e.g. loaded dump cart, lawn roller, etc.) on slopes greater than 5 degrees. When going down hill, the extra weight tends to push the tractor and may cause you to lose control (e.g. tractor may speed up, braking and steering ability are reduced, attachment may jack-knife and cause tractor to overturn).
7. Do not turn key off and coast downhill.

Children

1. 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. They do not understand the dangers. Never assume that children will remain where you last saw them.
 - a. Keep children out of the mowing area and in watchful care of a responsible adult other than the operator.
 - b. Be alert and turn machine off if a child enters the area.
 - c. To avoid back-over accidents, always look behind and down for small children.
 - d. Never carry children, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation.
 - e. Use extreme care when approaching blind corners, doorways, shrubs, trees or other objects that may block your vision of a child who may run into the path of the machine.
 - f. Remove key when machine is unattended to prevent unauthorized operation.
2. Never allow children under 14 years of age to operate this machine. Children 14 and over should read and understand the instructions and safe operation practices in this manual and on the machine and should be trained and supervised by an adult.

Towing

1. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
2. Follow the manufacturers recommendation for weight limits for towed equipment and towing on slopes.
3. Never allow children or others in or on towed equipment.
4. On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
5. The maximum weight on the hitch is 50 lbs. and the maximum towed load is 250 lbs.
6. Loss of traction can occur on slopes, 5° (9 %) maximum grade.
7. Travel slowly and allow extra distance to stop.
8. Use caution during turns to avoid jack-knifing.
9. Use extra caution when operating in reverse.
10. Do not modify or repair the hitch, replace the hitch if damaged.
11. Travel slowly and allow extra distance to stop.
12. Do not turn key off and coast downhill.

Service

General Service

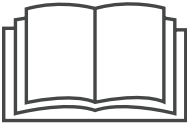
1. Have your tractor serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the ride-on lawn mower is maintained.
2. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
3. Do not use the charger in the rain.
4. Replace batteries if battery capacity drops below 50% of initial capacity
5. Using old or faulty batteries could cause a system fault that results in loss of power
6. Turn off and remove key before servicing, cleaning, or removing material from the tractor.
7. Before cleaning, repairing, or inspecting, make certain the blade(s) and all moving parts have stopped.
8. Periodically check to make sure the blades come to complete stop within approximately (5) five seconds after operating the blade disengagement control. If the blades do not stop within the this time frame, your machine should be serviced professionally by an authorized dealer.
9. Regularly check the safety interlock system for proper function, as described later in this manual. If the safety interlock system does not function properly, have your machine serviced professionally by an authorized dealer.
10. Check the blade(s) at frequent intervals for proper tightness. Also, visually inspect blade(s) for damage (e.g., excessive wear, bent, cracked). Replace the blade(s) with the original equipment manufacturer's (O.E.M.) blade(s) only, listed in this manual. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
11. Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
12. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
13. Never tamper with the safety interlock system or other safety devices. Check their proper operation regularly.
14. After striking a foreign object, stop the tractor. Thoroughly inspect the machine for any damage. Repair the damage before starting and operating.
15. Never attempt to make adjustments or repairs to the tractor while it is running.
16. The discharge cover is subject to wear and damage which could expose moving parts or allow objects to be thrown. For safety protection, frequently check components and replace immediately with original equipment manufacturer's (O.E.M.) parts only, listed in this manual. Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!
17. Maintain or replace safety and instruction labels, as necessary.

Storage

Store idle tractor indoors, when not in use, the tractor should be stored in an indoor dry and locked-up place — out of reach of children.

Safety Symbols

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

Symbol	Description
	READ THE OPERATOR'S MANUAL(S) Read, understand, and follow all instructions in the manual(s) before attempting to assemble and operate
	WARNING— ROTATING BLADES Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
	WARNING—THROWN OBJECTS This machine may pick up and throw and objects which can cause serious personal injury.
	WARNING—ELECTRIC SHOCK Do not use the charger in the rain and do not run the tractor with the charger plugged in. Do not operate the tractor in the rain or wet conditions.
	BYSTANDERS Keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation.
	WARNING— SLOPE OPERATION Do not operate this machine on a slope greater than 15 degrees.



WARNING! Your Responsibility — Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

SAVE THESE INSTRUCTIONS!

Symbol	Description
	DANGER — ROTATING BLADES To reduce the risk of injury, keep hands and feet away. Do not operate unless discharge cover or grass catcher is in its proper place. If damaged, replace immediately.
	DANGER— ROTATING BLADES Never carry passengers. Never carry children, even with the blades off.
	DANGER— ROTATING BLADES To avoid a back-over accident, keep children away from the machine while it is in operation.
	DANGER— ROTATING BLADES Always look down and behind before and while backing to avoid a back-over accident.
	WARNING—FIRE HAZARD Do not allow debris to accumulate. The build up of debris can lead to a fire.
	WARNING—FIRE HAZARD Do not place gas container inside cargo box.
	WARNING—RIDERS/STABILITY The cargo box is not a seat. Do not allow anyone to sit or stand on the cargo box. The storage area has a maximum weight capacity of 20 pounds. Do not overload the cargo box, it may damage the machine and affect the stability of the machine.



WARNING! Your Responsibility — Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

SAVE THESE INSTRUCTIONS!

Slope Gauge

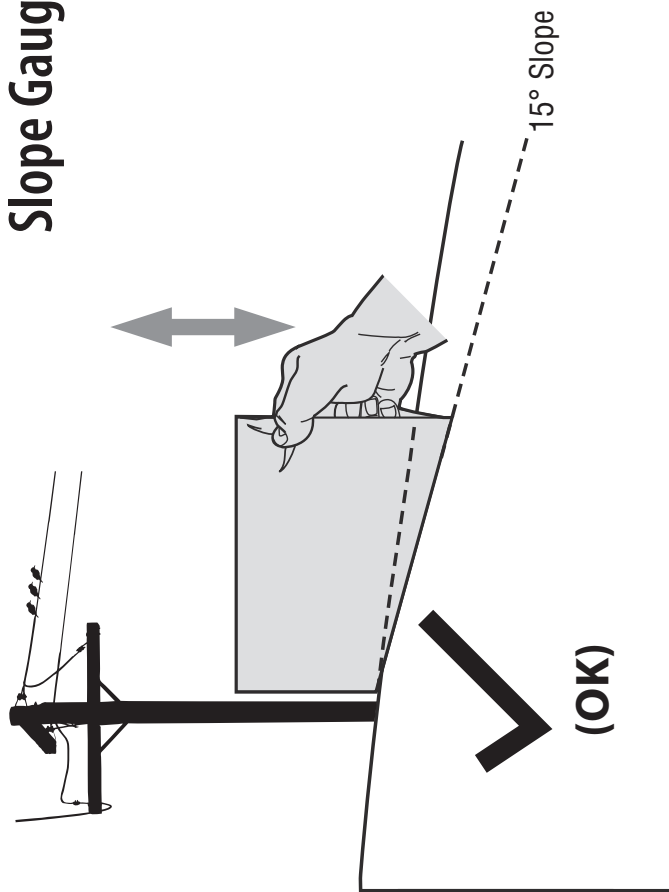


Figure 1

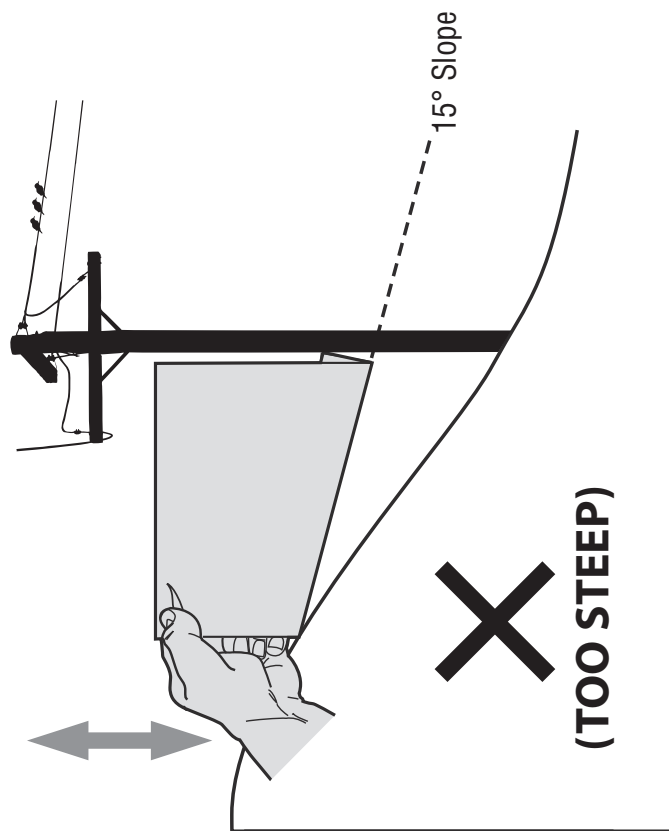


Figure 2

15° dashed line

USE THIS SLOPE GAUGE TO DETERMINE

IF A SLOPE IS TOO STEEP FOR SAFE OPERATION!

To check the slope, proceed as follows:

1. Remove this page and fold along the dashed line.
2. Locate a vertical object on or behind the slope (e.g. a pole, building, fence, tree, etc.)
3. Align either side of the slope gauge with the object (See Figure 1 and Figure 2).
4. Adjust gauge up or down until the left corner touches the slope (See Figure 1 and Figure 2).
5. If there is a gap below the gauge, the slope is too steep for safe operation (See Figure 2 above).



WARNING! Slopes are a major factor related to tip-over and roll-over accidents which can result in severe injury or death.

Do not operate machine on slopes in excess of 15 degrees. All slopes require extra caution.

Always mow across the face of slopes, never up and down slopes.

Contents of Crate

- One Rider
- One Rider Operator's Manual
- One Battery Charger
- One Battery Charger Manual
- One Deck Wash Hose Coupler

Rider Preparation

Steering Wheel Column

Place the steering column in one of the two desired positions (high or low) and secure in place with the hex screws and flat washers. See Figure 3-1.

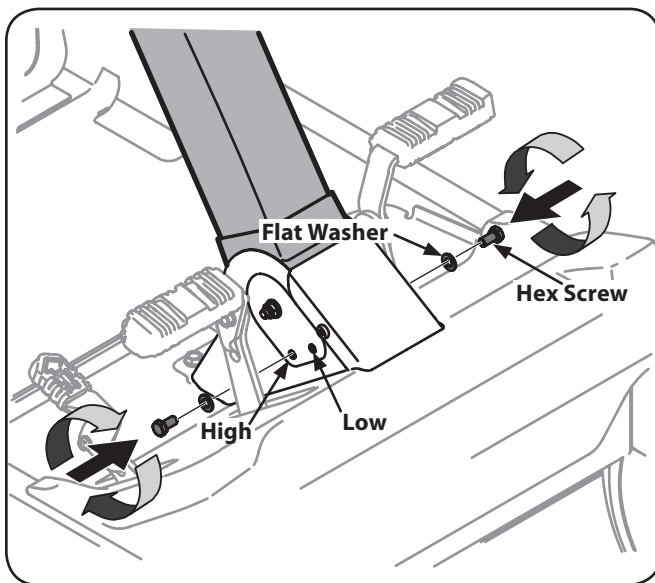


Figure 3-1

Adjusting the Seat

To adjust the position of the seat, lift the seat adjustment lever up. Slide the seat forward or rearward to the desired position; then release the adjustment lever. Make sure seat is locked into position before operating the rider. See Figure 3-2.

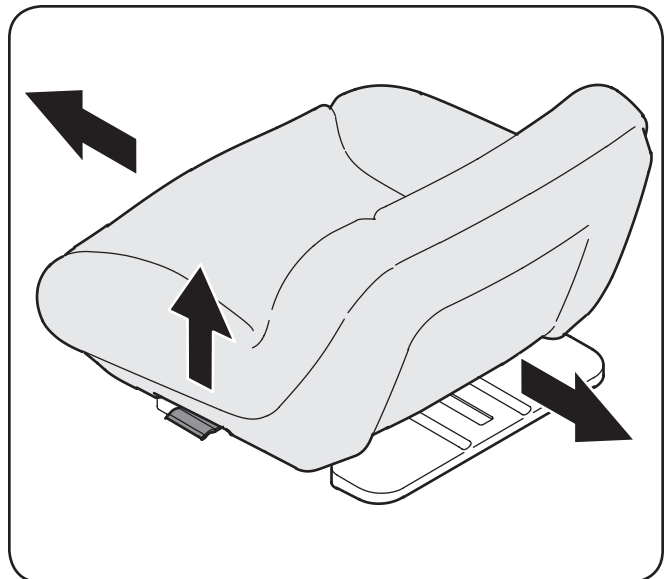


Figure 3-2

NOTE: In order to have the seat tilted up, the seat must be positioned all the way to the rear. Caution should be used to avoid damage to the battery cover when tilting the seat forward.

Manually Moving the Rider

1. Engage the transmission bypass rods, one on each side of the rider, to move the rider manually without starting it. The transmission bypass rods are located on the rear of the rider, just inside each rear wheel. Engage the bypass rods by pulling each one out (a) and to the right (b) to lock it into place. See Figure 3-3.

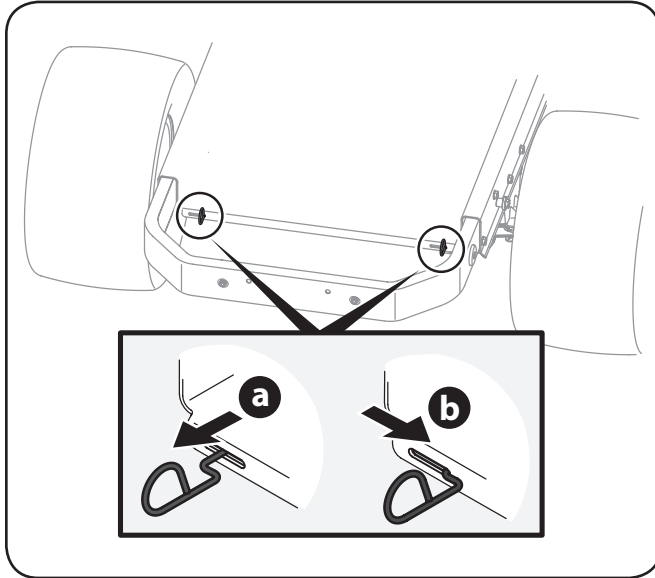


Figure 3-3

2. Disengage the bypass rods by reversing steps a & b after moving the rider. See Figure 3-3.
3. Remove the deck wash system nozzle adapter from the manual bag and store for future use.

Charging the Batteries



CALIFORNIA PROPOSITION 65 WARNING!

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.



WARNING: The batteries contain corrosive fluid and toxic material — HANDLE WITH CARE. Keep away from children. Do not puncture, disassemble, mutilate, or incinerate. Explosive gases could be vented during charging or discharging. Charge in a well ventilated area, away from sources of ignition.



WARNING! Recharge only with the charger provided with this rider. A charger that is not suitable for this machine may damage the batteries or create the risk of fire.



WARNING! Do not charge or operate the rider in the rain or in wet conditions.

NOTE: The batteries in your rider are not expected to last for the life of your rider. Rechargeable batteries degrade with time and use. The batteries may eventually need to be replaced. To have the batteries replaced, contact your authorized Cub Cadet Service Dealer.

Refer to the manual packed with your battery charger for information and instructions on charging the batteries. Refer to the Controls & Features section of this manual for the location of the charging port on the rider.

NOTE: Use only the battery charger provided with this rider.

NOTE: The batteries should be fully charged before the initial use.

NOTE: Never charge a frozen battery.

NOTE: It is recommended that the rider be charged once every month during off-season storage.

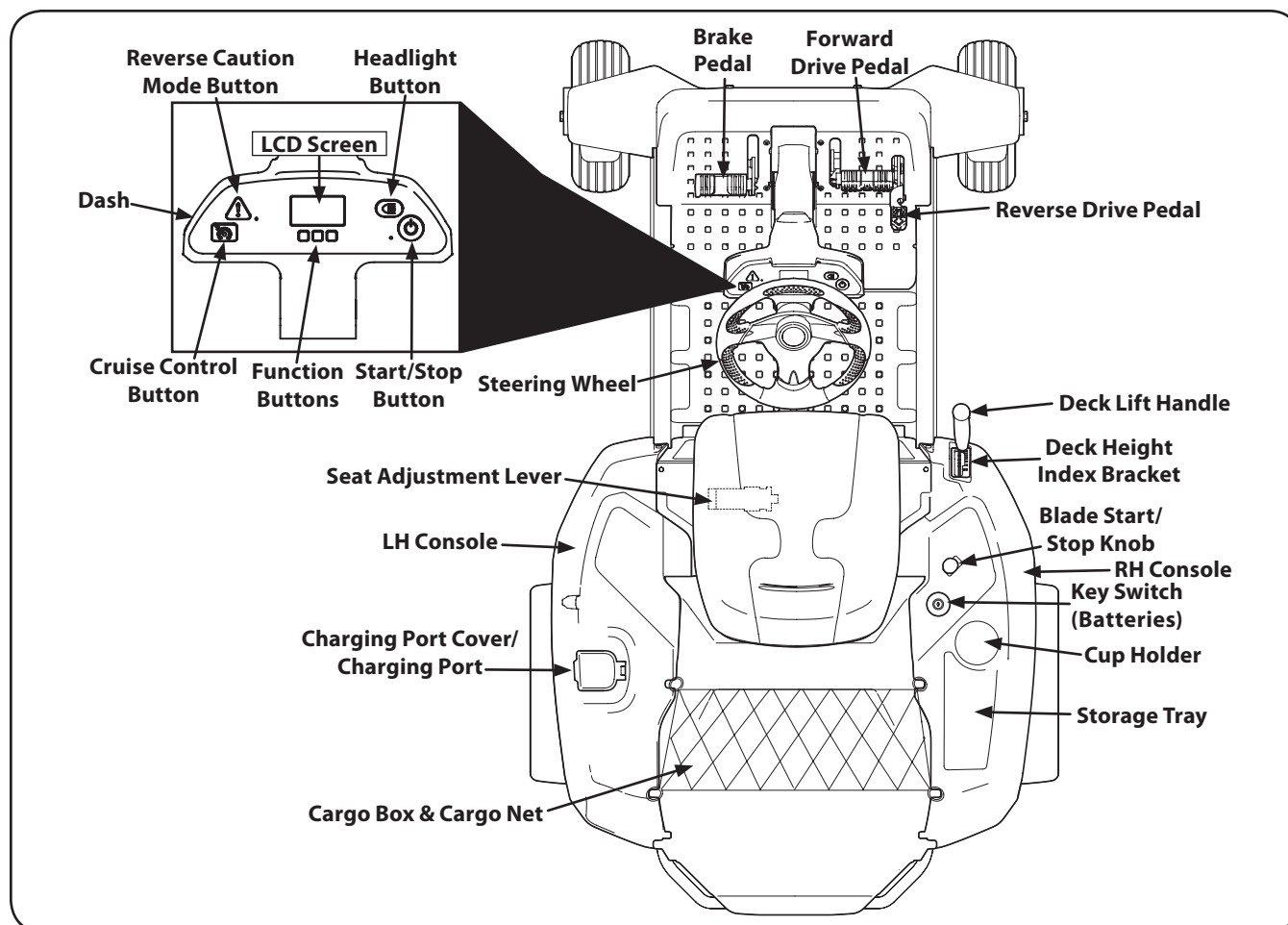
NOTE: Always disconnect battery charger (or extension cord, if used) from the electrical outlet first, then disconnect battery charger from the charging port.

NOTE: It is recommended that the batteries be fully charged after each use. Storing batteries in a discharged state could reduce future performance.

NOTE: It is recommended that the unit be plugged in at all times when not in use.

LCD Display

The language and measurements can be changed while the rider is on by pressing the “BLADE NORMAL” button below the  icon. To set the language, press the “BLADE NORMAL” button until the desired language is displayed. To change the language and measurement, press the “SYSTEM SETTINGS” button below the  icon. When the menu comes up, press the “BLADE BOOST” button below the  icon to change the measurements, to change the language press the “BLADE NORMAL” button below the  icon. To go back to the home screen, press the “SYSTEM SETTINGS” button below the  icon.



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

Deck Height Index Bracket

The deck height index bracket consists of eight index notches located on the front of the RH console. Each notch corresponds to a ½" change in the cutting height ranging from 1-½" (position 1) to 4" (position 8).

Deck Lift Handle

The deck lift handle is located on the front of the RH console, it is used to either raise or lower the mower deck to the desired cutting position.

Pull the handle out of the index bracket to lower or raise the cutting deck to the desired position. Move the lift handle to the right until fully engaged in the index bracket.



Park Brake Lock (Not Shown)

The park brake lock is located at the base of the steering column. It is used to engage the parking brake when the rider is at rest. Refer to the Operation section of this manual for detailed instructions regarding the park brake lock.

NOTE: The park brake lock must be set if the operator leaves the seat.



WARNING! Never leave a powered machine on and unattended. Always disengage Blade Start/Stop Knob, stop the rider, set parking brake and remove key to prevent unintended starting.

PARK
BRAKE



Forward Drive Pedal

The forward drive pedal is located on the front, right side of the running board. Press the forward drive pedal forward to travel forward. Ground speed is also controlled with the forward drive pedal. The further forward the pedal is moved, the faster the rider will travel. The pedal will return to its original position when released.

Reverse Pedal

The reverse drive pedal is located on the front, right side of the running board. Ground speed is also controlled with the reverse drive pedal. The further downward the pedal is moved, the faster the rider will travel. The pedal will return to its original position when released.



Brake Pedal

The brake pedal is located on the left front side of the running board. The brake pedal can be used for sudden stops or setting the parking brake.

NOTE: The brake pedal must be fully depressed to activate the safety interlock switch when starting the rider.



Transmission Bypass Rods

The transmission bypass rods (one for each transmission) are located under the rider on the back of each transmission inside the rear wheels.

When engaged, the two rods allow the rider to be pushed a short distance by hand. Refer to the Assembly & Set-Up section for instructions on using the bypass feature.

Cup Holder

The cup holder is located on the RH console to the right of the key switch.

Storage Tray

The storage tray is located at the rear of the RH console next to the cup holder.

Seat Adjustment Lever

The seat adjustment lever is located below the left side of the seat. Refer to the Assembly & Set-Up section for instructions on adjusting the seat position.

Charging Port

The charging port is located on the LH console. To access the charging port, lift up on the charging port cover.

Key Switch (Batteries)

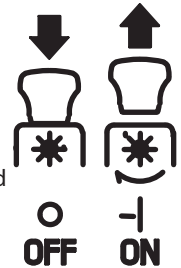
The key switch is located on the RH console and sends power to the ignition control module when the switch is in the ON position. The rider cannot be started unless the key switch is in the ON position. Turning the switch to the OFF position turns the rider off and stops the flow of power to the vehicle control module.

Blade Start/Stop Knob

The blade start/stop knob is located on the RH console next to the key switch.

The blade start/stop knob operates the electric motors on the deck. Pull the knob upward to engage the blades, or push the knob downward to disengage the blades.

NOTE: The blade start/stop knob must be in the OFF position when starting the rider.



Cruise Control On/Off Button

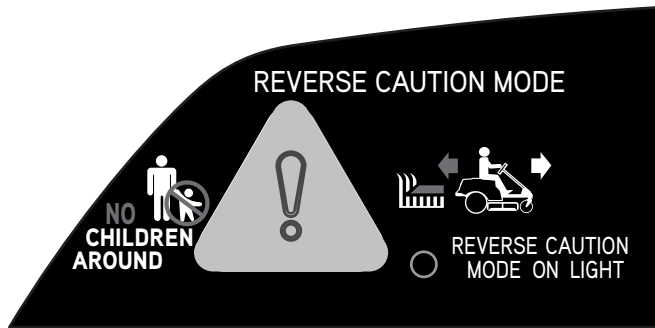


Pressing the cruise control on/off button while the rider is in motion allows the rider to remain at a constant ground speed without applying pressure to the forward drive pedal. The cruise control can be disengaged by pressing either the cruise control button, the brake pedal, the forward drive pedal or the reverse drive pedal. Refer to the Operation section of this manual for detailed instructions regarding the cruise control feature.

NOTE: Cruise control will not engage at the rider's fastest ground speed. If the operator should attempt to do so, the rider will automatically decelerate to the fastest optimal mowing ground speed.

NOTE: Cruise control will not engage in reverse.

Reverse Caution Mode Button (RCM)



CAUTION: Prior to operating the rider, refer to the Operation section of this manual for detailed instructions regarding operating the rider in REVERSE CAUTION MODE.

The reverse caution mode button  is located on the left side of the dash. When activated the indicator light is illuminated. The reverse caution mode allows the rider to be operated in reverse with the blades engaged. Refer to the Operation section of this manual for more information on operating the rider in the reverse caution mode.

NOTE: Mowing in reverse is not recommended.



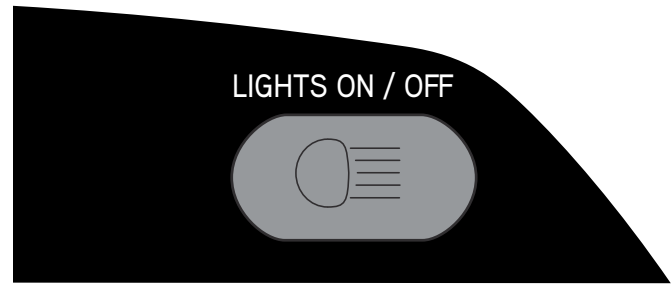
WARNING! Use extreme caution while operating the rider in the REVERSE CAUTION MODE. Always look down and behind before and while backing. Do not operate the rider when children or others are around. Stop the rider immediately if someone enters the area.

Rider Start/Stop Button



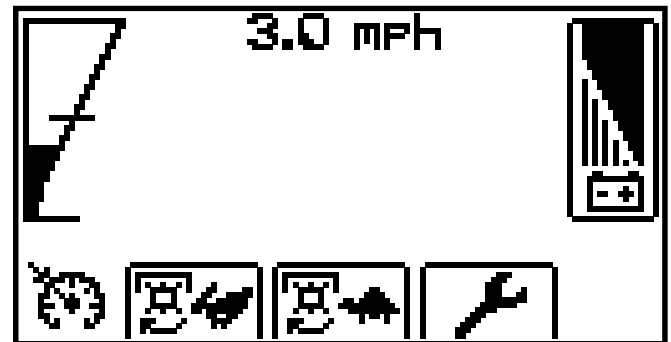
The rider start/stop button  is located on the right side of the dash and is used to start and stop the rider when the key switch is in the ON position. When the rider start/stop button is activated the indicator light is illuminated.

Headlight Button



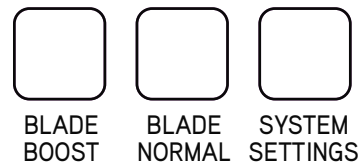
The headlight button is located on the right side of the dash and is used to turn the headlight on or off.

LCD Screen



The LCD display is located in the center of the dash and is used to provide instructions, warnings and information about your rider and its systems. See page 14 for a breakdown of the icons you will see on your screen and an explanation of what these icons mean.

Function Buttons



The function buttons are on the rider's dash and located below the LCD Screen. The function buttons are used to navigate through the rider's menu screens and change settings.

Cargo Box & Cargo Net

The cargo box is located on the rear of the rider and could be used for storage. The cargo net is used to secure the items in the cargo box.



WARNING! Do not permit anyone to ride or stand on the cargo box. They could fall off and be seriously injured.



CAUTION: The storage area has a maximum weight capacity of 20 pounds. Additional weight may cause damage to the rider or affect the stability of the tractor.

LCD Symbols

This page depicts and describes LCD symbols that may appear on the LCD panel. Read, understand, and follow all instructions on the tractor before attempting to assemble and operate. Refer to the Operation section of this manual for more information on these symbols.

Symbol	Description	Symbol	Description
	Unplug the charger.		Start/stop button has been pressed.
	Charger is unplugged	3.0 MPH	Tractor speed.
	When this icon is flashing on the LCD screen the battery level is being measured by the electrical system.		Blades engaged indicator.
	Sit in the operator's seat.		Blade boost indicator.
	Operator is in the seat.		Cruise control indicator.
	Push Blade Start/Stop Knob Down/Off.		Battery level indicator.
	Blade Start/Stop Knob is Down/Off.		Power usage indicator.
	Remove foot from the forward/reverse pedal.		Reverse Caution Mode is activated.
	Foot is off the forward/reverse drive pedal.		Pressing the function button beneath this icon brings up a screen that shows run time, deck run time, odometer, allows language change (English/French/Spanish), and unit change (km/mph).
	Place foot on brake pedal.		Pressing the function button beneath this icon allows the user to switch between English, French and Spanish.
	Foot is on brake pedal.		
	Press the start/stop button		

General Safety

- **RECEIVE INSTRUCTION** — Entirely read this operator's manual. Learn to operate this machine SAFELY. Do not risk INJURY or DEATH. Allow only those who have become competent in its usage to operate this rider.
- Do not charge or operate the rider in the rain or in wet areas.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Before starting the rider or beginning operation, be familiar with the controls. The operator should be in the operator's seat. The blades must be disengaged and the parking brake engaged.
- Keep all shields in place. Keep away from moving parts.
- **NO RIDERS!** Keep all people and pets a safe distance away. Look behind and down to both sides of the rider before and while backing up.
- **DO NOT** direct the mower discharge at people.
- Avoid slopes where possible. Never operate on slopes greater than 15°. Slopes with a greater incline present dangerous operating conditions. Rider may tip or roll over.
- Before leaving the operator's seat disengage the blades and engage the parking brake, shut off the rider and remove the key. Wait for all movement to stop before servicing or cleaning.
- Avoid any sudden movements of the steering wheel when starting and stopping. Keep a firm grip on the steering wheel.
- Be careful when operating near roadways. Stop the rider motion and wait for vehicles to pass before operating along the road.
- Do not operate the rider with the mower deck removed. Removal of the deck will change the balance of the rider, and could contribute to a rider tipover/rollover.
- Avoid operation on traction surfaces that are unstable; use extreme caution if the surface is slippery.
- Slow down before turning and come to a complete stop before any zero turn maneuver.
- Do not stop the rider or park the rider over combustible materials such as dry grass, leaves, debris, etc.

Before Operating Your Rider

- Before you operate the rider, study this manual carefully to familiarize yourself with the operation of all the instruments and controls. It has been prepared to help you operate and maintain your rider efficiently.
- Check the tire inflation pressures. See the Maintenance & Adjustments section of this manual for more information on the tires.
- Adjust the seat for operator's maximum comfort, visibility and for maintaining complete control of the rider. See the Set-Up section of this manual for more information on adjusting the seat.

Operating the Parking Brake

To set the parking brake (Refer to Figure 5-1):

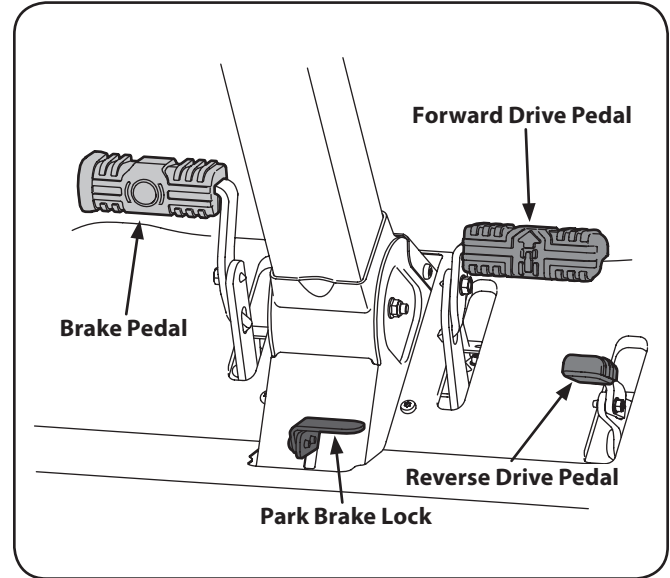


Figure 5-1

1. Press down on the brake pedal (○).
2. While holding the brake pedal (○) down, press down on the park brake lock and release the brake pedal (○).

To release the parking brake (Refer to Figure 5-1):

1. Press down on the brake pedal (○), the park brake lock or either one of the drive pedals.

Safety Interlock System

This rider is equipped with a safety interlock system for the protection of the operator. If the interlock system should ever malfunction, do not operate the rider. Contact your Cub Cadet Service dealer.

- The safety interlock system prevents the rider from starting unless the parking brake is set, and the blades are disengaged.
- The rider will automatically shut off if the operator leaves the seat.
- To test the Safety Interlock System, leave the rider running, engage the park brake latch, and lift up from the seat for a few seconds. If the rider shuts off, the system is working correctly. If the rider does not shut off, do not operate the rider. Contact your authorized Cub Cadet Service Dealer.



WARNING! Do not operate the rider if the interlock system is malfunctioning. This system was designed for your safety and protection.

Starting the Rider



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



WARNING! For personal safety, the operator must be sitting in the seat when starting the rider.

To start the rider follow the steps below:

NOTE: The LCD display will also walk you through the steps necessary to start the rider. When each task is completed the icon will change to a darkened icon on the display and advance to the next step.

NOTE: If the task has already been completed the LCD display will skip that step and automatically move on to the next, i.e. if you are already in the operator's seat when you turn the key switch on the step will not appear on the screen.

1. Unplug the charger. See Figure 5-2.



Figure 5-2

2. Sit in the rider seat. See Figure 5-3.

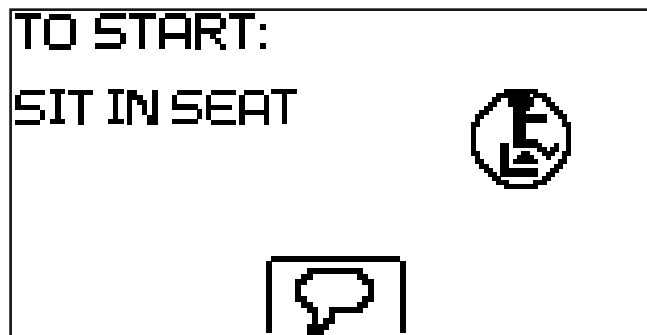


Figure 5-3

3. Make sure the blade start/stop knob in the DISENGAGED position. See Figure 5-4.

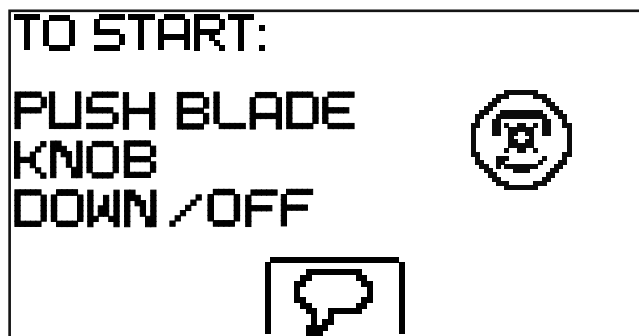


Figure 5-4

4. Insert the key into the key switch and turn it to the ON position.

NOTE: At this point you can change the language or measurements as instructed in the Set-Up section.

5. If your foot is on the forward/reverse drive pedal, remove it. See Figure 5-5.

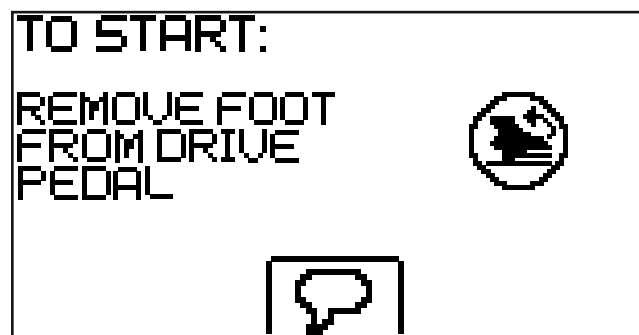


Figure 5-5

6. Place foot on the brake pedal. See Figure 5-6.



Figure 5-6

- To start the rider, press and hold the start/stop button. See Figure 5-7.



Figure 5-7

- When the rider starts the screen will display the power usage indicator, battery level indicator, rider speed and "POWER ON" will display on the screen. See Figure 5-8.

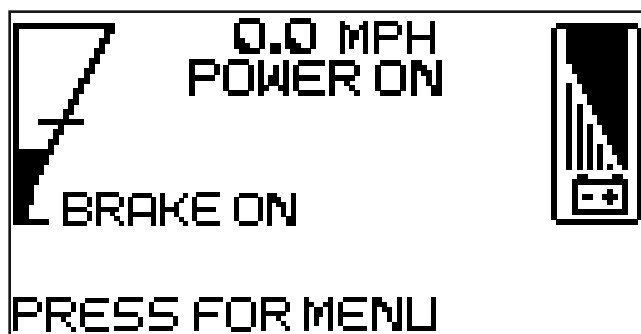


Figure 5-8

NOTE: When the rider is powered on the battery icon will flash until the battery level is measured by the electrical system. The battery level will not be accurate until the battery icon stops flashing.

Stopping the Rider

- Disengage the blades by pressing the blade start/stop knob down.
- Engage the parking brake lock as instructed in page 15.
- Turn the key switch to the OFF position and remove the key.

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

Driving The Rider



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



WARNING! Never reach through the steering wheel to press any buttons on the dash while the rider is in motion.



CAUTION: When driving the rider immediately after full charge (i.e. just after removing it from the charger) the rider will operate at lower speeds and start slowly even when the drive pedals are fully depressed. The mower will also "pulse brake" when traveling downhill during this period. This rapid deceleration is designed to avoid damaging the electrical system. This is normal and will stop once the rider has been in use.



WARNING! In case of a system fault or a complete loss of battery power the tractor can free-wheel. Depress the brake pedal to maintain control and stop the unit. Restart the tractor. If the problem persists, contact your service dealer.

NOTE: If the rider stops, the blades stop or the speed of the rider is reduced and an error message flashes on your LCD screen, refer to the Troubleshooting section of this manual.

- Release the parking brake.
- To travel FORWARD, slowly press the forward drive pedal  forward until the desired speed is achieved. See Figure 5-1.
- To travel in reverse, look down and behind the rider and slowly push down on the reverse drive pedal  with the ball of your foot (NOT your heel) until the desired speed is achieved. See Figure 5-1.

NOTE: The blades will stop when traveling in reverse unless the Reverse Caution Mode is activated. See Reverse Caution Mode (RCM) on page 19 for information.



CAUTION: Do NOT attempt to change the direction of travel when the rider is in motion. Always bring the rider to a complete stop before moving the rider from forward to reverse or vice versa.



WARNING! Do not leave the seat of the rider without first disengaging the blades and setting the parking brake. If leaving the rider unattended, also turn the rider off and remove the key.

- To slow down the rider, slowly release the forward  or reverse drive pedal . To stop the rider, press down on the brake pedal  or remove your foot from the forward  or reverse drive pedal . To lock the parking brake, refer to page 15.
- To use the cruise control:
 - Press down on the forward drive pedal .
 - While maintaining the desired speed press the cruise control button  on the dash then release the forward drive pedal  to activate the cruise control. When the cruise control is active the cruise control icon  will appear on the bottom left of your screen. See Figure 5-9.

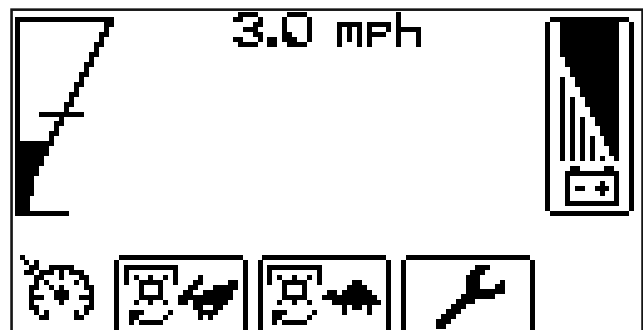


Figure 5-9

NOTE: Cruise control will not engage in reverse.

- To release the cruise control; press the brake pedal , the forward drive pedal , the reverse drive pedal  or the cruise control button .

Driving On Slopes

Refer to the SLOPE GAUGE on page 8 to help determine slopes where you may operate the rider safely.



WARNING! Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-½ feet every 10 feet). The rider could overturn and cause serious injury.



CAUTION: When driving the rider immediately after full charge (i.e. just after removing it from the charger) the rider will operate at lower speeds and start slowly even when the drive pedals are fully depressed. The mower will also “pulse brake” when traveling downhill during this period. This rapid deceleration is designed to avoid damaging the electrical system. This is normal and will stop once the rider has been in use.

- Mow across slopes, not up and down.
- Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Do not turn on slopes unless necessary. If it is necessary to turn on a slope, turn slowly uphill and use extra care while turning. Turning up a slope greatly increases the chance of a rollover.
- Avoid stopping when driving up a slope. If it is necessary to stop while driving up a slope, start up smoothly and carefully to reduce the possibility of flipping the rider over backward.

Engaging/Disengaging the Blades

To engage/disengage the blades:

1. To engage the blades pull up on the blade start/stop knob.
2. To disengage the blades push down on the blade start/stop knob.

Mowing



WARNING! Never reach through the steering wheel to press any buttons on the LCD display while the rider is in motion.



WARNING! To help avoid blade contact or a thrown object injury, keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.



WARNING! Plan your mowing pattern to avoid discharge of materials toward roads, sidewalks, bystanders and the like. Also, avoid discharging material against a wall or obstruction which may cause discharged material to ricochet back toward the operator.

- Mow across slopes, not up and down. If mowing a slope, start at bottom and work upward to ensure turns are made uphill.
- Do not mow at high ground speed, especially if a mulch kit (available separately) is installed.
- Do not cut the grass too short. Short grass is prone to weed growth and yellows quickly in dry weather.
- For best results it is recommended that the first two laps be cut with the discharge thrown towards the center. After the

first two laps, reverse the direction to throw the discharge to the outside for the balance of cutting. This will give a better appearance to the lawn.

- Do NOT attempt to mow heavy brush, weeds or extremely tall grass. Your rider is designed to mow lawns, NOT clear brush.
- Keep the blades sharp and replace or sharpen when worn. Dull blades will reduce battery run time.

Blades Boost/Blades Normal Function

1. The rider is equipped with a blades boost function/optimal load that increases the speed of the blade rotation. To engage the blade boost, press the “BLADE BOOST” button below the blade boost icon on the LCD display. When the blade boost is active, the icon will darken. See Figure 5-10.

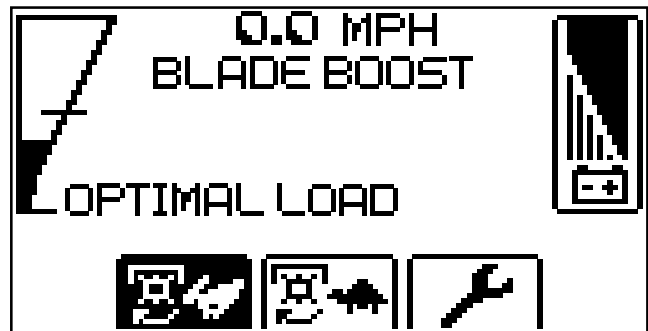


Figure 5-10

2. To return the mower to the blades normal function/light load, press the “BLADE NORMAL” button under the blades normal icon. When the blades normal is active the icon will darken. See Figure 5-11.

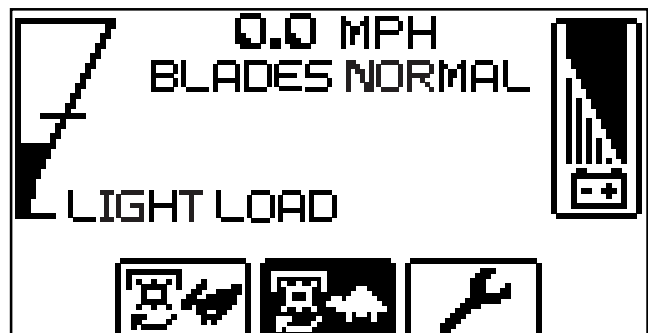


Figure 5-11

3. Mowing with the blade boost on will decrease mowing time and will increase the battery drain. But it may be the optimal blade speed for the best cut depending on conditions.
4. In early season and/or thick grass conditions the blades should always be in blade boost function to ensure a quality cut.

Using the Mower Deck



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

NOTE: When the battery charge gets too low, the blades will automatically disengage and stop. The LCD screen will flash low battery. When this situation occurs, the rider should be plugged into the charger as soon as possible.

NOTE: If the rider stops, the blades stop or the speed of the rider is reduced and an error message flashes on your LCD screen, refer to the Troubleshooting section of this manual.

1. Place the mower deck in the desired height by moving the deck lift lever to the left, then place it in the notch best suited for your application.
2. Engage the blades by pulling up on the blade start/stop knob and select either the blades boost or blades normal function depending on the conditions.
3. On the first pass pick a point on the opposite side of the area to be mowed and maintain a straight line towards that point to help achieve a quality cut.
4. Slowly press the forward drive pedal  forward until the desired speed is achieved, and keep the rider headed directly toward the alignment point.

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

5. When approaching the other end of the strip, slow down or stop before turning. A U-turn is recommended unless a pivot or zero turn is required.
6. Align the mower with an edge of the mowed strip and overlap approximately 3".
7. Direct the rider on each subsequent strip to align with a previously cut strip.
8. To prevent rutting or grooving of the turf, if possible, change the direction that the strips are mowed by approximately 45° for the next and each subsequent mowing.



WARNING! Be careful when crossing gravel paths or driveways. Disengage the blades and raise the deck to the highest position before crossing.

NOTE: When stopping the rider for any reason while on a grass surface, always engage the parking brake, shut the rider off and remove the key.

Reverse Caution Mode (RCM)

The Reverse Caution Mode allows the rider to be operated in reverse with the blades engaged.

NOTE: Mowing in reverse is not recommended.



WARNING! Use extreme caution while operating the rider in the Reverse Caution Mode (RCM). Always look down and behind before and while backing. Do not operate the rider when children or others are around. Stop the rider immediately if someone enters the area.

To use the Reverse Caution Mode (RCM):

NOTE: The operator **MUST** be seated in the rider seat.

1. Start the rider as previously instructed on page 16.
2. Press the Reverse Caution Mode (RCM) button  on the left side of the dash.
3. Once the RCM button  is pressed a warning statement will display on the LCD screen asking for confirmation of activating the RCM. To continue in RCM press the "BLADE BOOST" button below the "Yes" icon, to cancel RCM press the "SYSTEM SETTINGS" button below the "No" icon. See Figure 5-12.

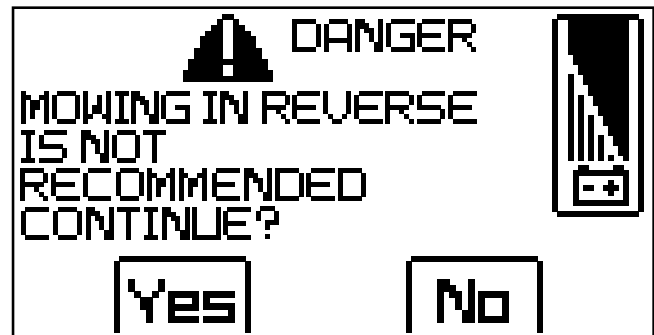


Figure 5-12

4. Once activated (indicator light on and warning symbol on the bottom, right of the LCD screen), the rider can be driven in reverse with the cutting blades engaged. See Figure 5-13.

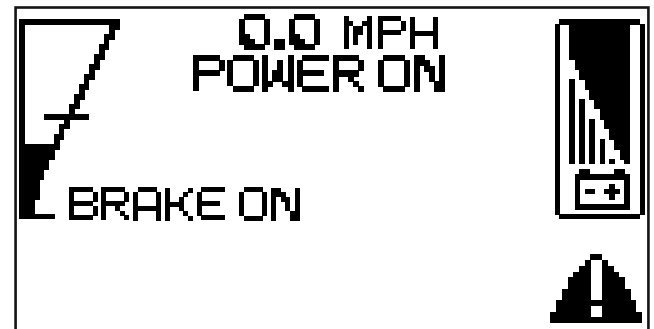


Figure 5-13

5. Always look down and behind before and while backing to make sure no children are around.

NOTE: The Reverse Caution Mode will remain activated until the Reverse Caution Mode button is pressed, the rider is shut off or the operator leaves the seat.

Maintenance Schedule

	Prior to Use	Every 10 Hours	Every 25 Hours	Every 50 Hours	Prior to Off-Season Storage
Lube Front Caster Wheels and Wheel Spindles			✓		✓
Lube Pedal Pivot Points		✓			✓
Grease Front Castings			✓		
Check Blades	✓			✓	
Charge Battery	✓				✓
Check Hardware	✓				

NOTE: The electrical components on this rider are not serviceable. Please contact an authorized Cub Cadet service dealer for any service needs.



WARNING! Have your rider serviced by qualified service personnel using only identical replacement parts. This will ensure that the safety of the rider is maintained.

Maintenance



WARNING! Before performing any maintenance or repairs, stop the rider, disengage blades, set parking brake and remove key to prevent unintended starting of the blades or movement of the rider.

Battery Storage

1. The batteries should be stored with a full charge. Discharged batteries can freeze faster than charged batteries in cold temperatures.
2. The battery charger should remain connected to the charging port on the rider when not in use.
3. If keeping the charger connected during off-season storage is not possible, the batteries should be fully charged once every month.
NOTE: It will take approximately 16 hours to fully charge the batteries. Leaving the batteries connected to the charger for more than 16 hours will not damage the batteries.
4. Batteries should not be kept in a discharged state. Permanent damage to the batteries can occur.
5. Fully charge batteries once a month during off-season storage.
6. Fully recharge the batteries before returning to service.

Charging the Batteries



CALIFORNIA PROPOSITION 65 WARNING!

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.



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



WARNING! Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.



WARNING! Do not charge or operate the rider in the rain or in wet locations.

NOTE: The batteries in your rider are not expected to last for the life of your rider. Rechargeable batteries degrade with time and use. The batteries may eventually need to be replaced. To have the batteries replaced, contact your authorized Cub Cadet Service Dealer.

NOTE: Replace batteries if battery capacity drops below 50% of initial capacity

NOTE: Using old or faulty batteries could cause a system fault that results in loss of power

Refer to the manual packed with your battery charger for information and instructions on charging the batteries. Lift the charging port cover up and insert the charging cord into the charging port located in the left console. See Figure 6-1.

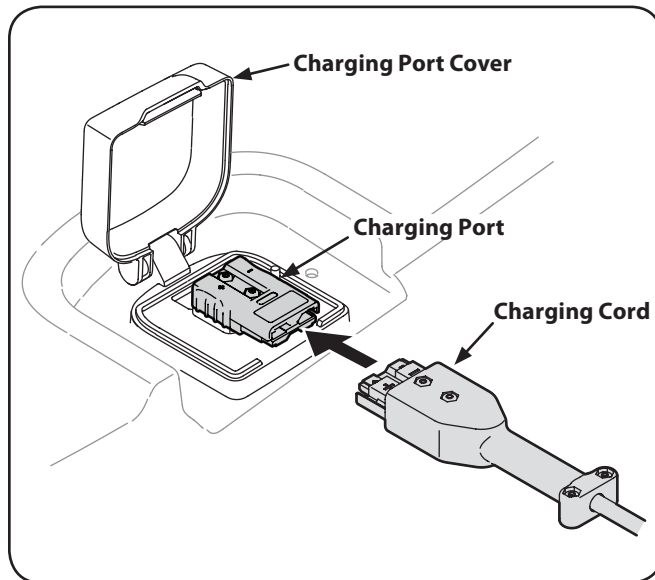


Figure 6-1

Battery Charging Tips

- Use only the battery charger provided with this rider.
- The batteries should be fully charged before each use.
- It is recommended that the rider be charged once every month during off-season storage.
- It will take approximately 16 hours to fully charge the batteries. Leaving the batteries connected to the charger for more than 16 hours will not damage the batteries.
- The batteries do not develop a memory and do not need to be fully discharged before recharging.
- Always disconnect battery charger (or extension cord, if used) from the electrical outlet first, then disconnect the charging cord from the charging port.
- It is recommended that the rider be charged after each use. Storing batteries in a discharged state could reduce future performance.

Rider Storage

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

If your rider is not going to be operated for an extended period of time (thirty days to approximately six months), the rider should be prepared for storage. Store the rider in a dry and protected location. If stored outside, cover the rider completely to protect it from the elements. The procedures outlined below should be performed whenever the rider is placed in off-season storage.

1. Clean the entire rider thoroughly.
2. Fully charge the batteries and recharge the batteries every 30 days when in storage.

3. Lubricate all lubrication points.

NOTE: Use of a pressure washer or garden hose is not recommended to clean your rider. This may cause damage to electrical components and bearings. The use of excessive water will result in shortened life and reduce serviceability.

Removing The Rider From Storage

1. Fully charge the batteries and inflate the tires to the recommended pressures.
2. Drive the rider without a load to make certain all the rider systems are functioning properly.

Cleaning the Rider

A brush, damp sponge or rag should be used to clean the rider.

NOTE: Do not spray water into the battery compartment when cleaning the rider. Doing so can cause serious damage to the rider's electrical system.

NOTE: To clean the battery cover, the seat must be positioned all the way back to be tilted up to access the area under the seat.

Cleaning the Deck

NOTE: The deck is not removable.

Your rider's deck is equipped with a water port on its surface as part of its deck wash system.

Use the Smart Jet™ to rinse grass clippings from the deck's underside to prevent the buildup of corrosive chemicals. Complete the following steps AFTER EACH MOWING:

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



CAUTION: Make certain the rider's discharge chute is directed AWAY from your house, garage, parked cars, etc.

2. Stop the rider, disengage the blades, set the parking brake and turn the key switch to the OFF position.
3. Thread the hose coupler (packaged with your rider's Operator's Manual) onto the end of your garden hose.

4. Attach the hose coupler to the water port on the left of your deck surface. See Figure 6-2.



CAUTION: Be certain the hose is clear of the deck and no part of the hose is under the deck before starting the rider.

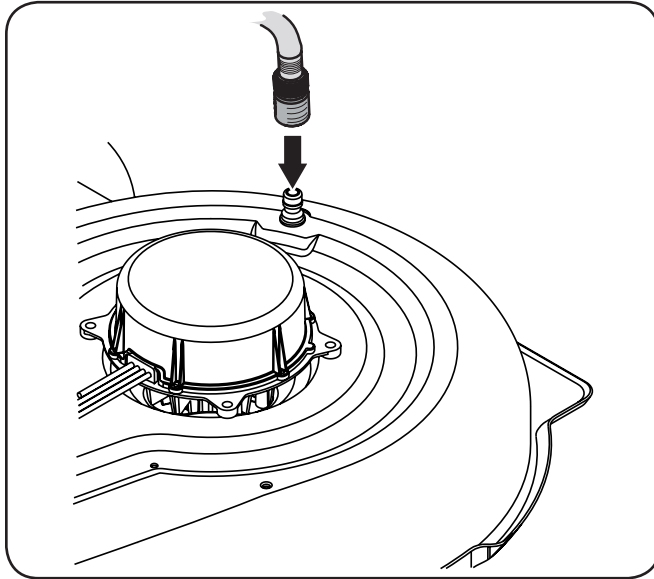


Figure 6-2

5. Turn the water on.
6. While sitting in the operator's position, start the rider as instructed beginning on page 16..
7. Engage the blades.
8. Remain in the operator's position with the cutting deck engaged for a minimum of two minutes, allowing the underside of the cutting deck to thoroughly rinse.
9. Disengage the blades.
10. Turn the key switch to the OFF position to turn off the rider.
11. Turn the water off and detach the hose coupler from the water port on your deck's surface.
12. After cleaning your deck with the Smart Jet™ system, return to the operator's position, start the rider and engage the blades. Keep the cutting deck running for a minimum of two minutes, allowing the underside of the cutting deck to thoroughly dry.

Lubrication



WARNING! Before lubricating, repairing, or inspecting, always stop the rider, disengage blades, set parking brake and remove key to prevent unintended starting.

Front Wheels

Each of the front wheel spindles and rims is equipped with a grease fitting. See Figure 6-3. Lubricate with a No. 2 multi-purpose grease applied with a grease gun after every 25 hours of rider operation.

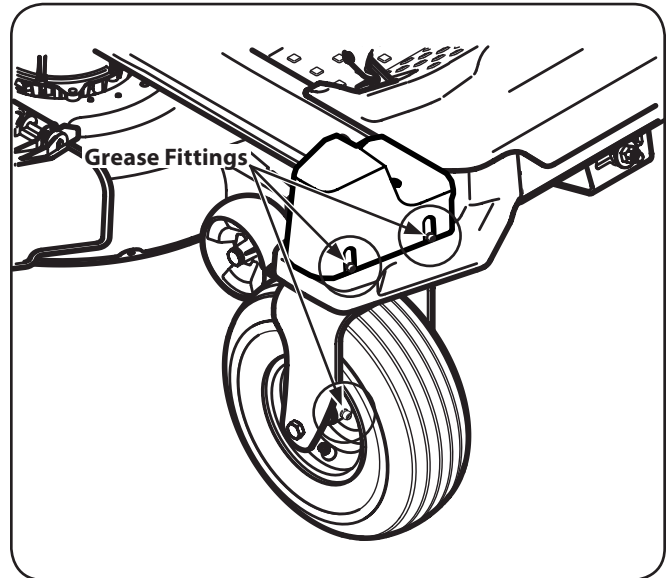


Figure 6-3

Tires

Refer to the tire sidewall for exact tire manufacturer's recommended or maximum psi. Do not overinflate. Uneven tire pressure could cause the cutting deck to mow unevenly.



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

Adjustments

NOTE: Check the rider's tire pressure before performing any deck leveling adjustments. Refer to Tires for information regarding tire pressure.



WARNING! Shut the rider off, remove the key and engage the parking brake before making adjustments. Protect your hands by using heavy gloves when handling the blades.

Leveling the Deck (Side to Side)

NOTE: Check the rider's tire pressure before performing any deck leveling adjustments. Refer to Tires for information regarding tire pressure. Always level the deck side to side before front to rear.

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

1. With the rider parked on a firm, level surface, place the deck lift handle in a middle mowing position and rotate both outside blades so that they are in-line (side-to-side) with the rider.
2. Measure the distance from the outside of the left blade tip to the ground and the distance from the outside of the right blade tip to the ground. Both measurements taken should be equal. If they're not, proceed to the next step.
3. Loosen, but do NOT remove, the hex bolt on the rear left deck hanger link. See Figure 6-4.

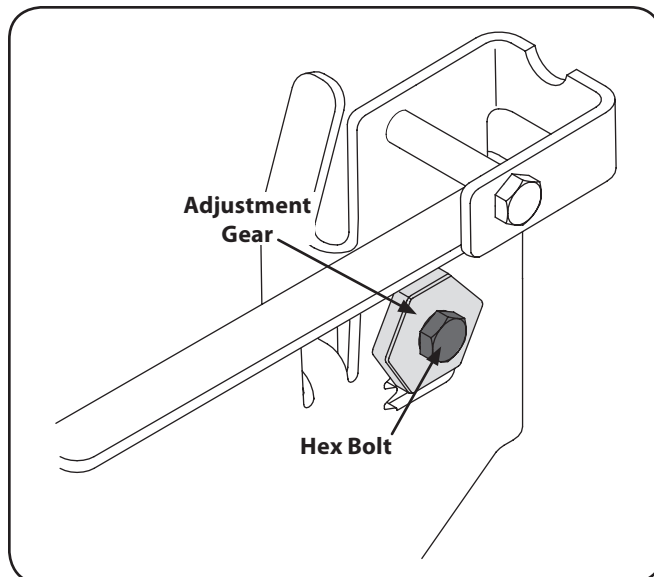


Figure 6-4

NOTE: The rear right deck hanger link is not adjustable and is used to help adjust the other hanger links.

4. Using a wrench, raise or lower the left side of the deck by turning the adjustment gear. See Figure 6-4.

The deck is properly leveled when both blade tip measurements are equal. Retighten the hex bolt on the rear left deck hanger bracket when proper adjustment is achieved.

Leveling the Deck (Front To Rear)

NOTE: Check the rider's tire pressure before performing any deck leveling adjustments. Refer to Tires section on page 22 for information regarding tire pressure. Always level the deck side to side before front to rear.

The front of the deck should be $\frac{1}{4}$ – $\frac{3}{8}$ " lower than the rear of the deck. Adjust if necessary as follows:

1. Park the rider on a firm, level surface and place the deck lift handle in a middle position.
2. Rotate the blade nearest the discharge chute so that it is in line (front-to-back) with the rider.
3. Measure the distance from the front of the blade tip to the ground and the rear of the blade tip to the ground. The front measurement taken should be $\frac{1}{4}$ – $\frac{3}{8}$ " less than the rear measurement.
4. Determine the approximate distance necessary for proper adjustment and proceed, if necessary.
5. Using a wrench, raise or lower the front of deck by turning lock nut on the front deck lift rod. See Figure 6-5.

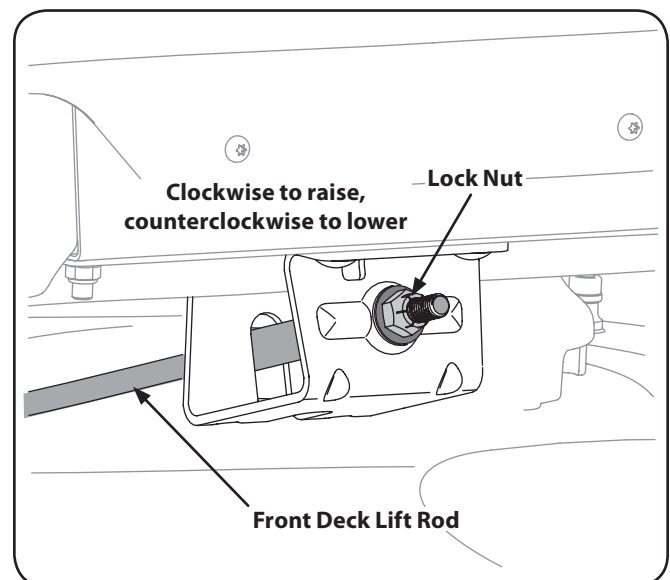


Figure 6-5

6. The deck is properly leveled when the front tip of the blade is $\frac{1}{4}$ – $\frac{3}{8}$ " lower than the rear tip. Retighten the hex bolt on the left and right rear deck hanger links when proper adjustment is achieved.

Adjusting the Deck Wheels

Move the rider on a firm and level surface, preferably pavement, and proceed as follows

1. Place the deck lift handle in the desired mowing height setting.
2. Check the deck wheels for contact or excessive clearance with the surface below. The deck wheels should have between $\frac{1}{4}$ - $\frac{1}{2}$ " clearance above the ground.
3. If the deck wheels have excessive clearance or contact with the surface, adjust as follows:
 - a. Raise the deck lift handle to its highest setting.
 - b. Remove the front and rear deck wheels by removing the lock nuts and shoulder bolts which secure them to the deck. See Figure 6-6.

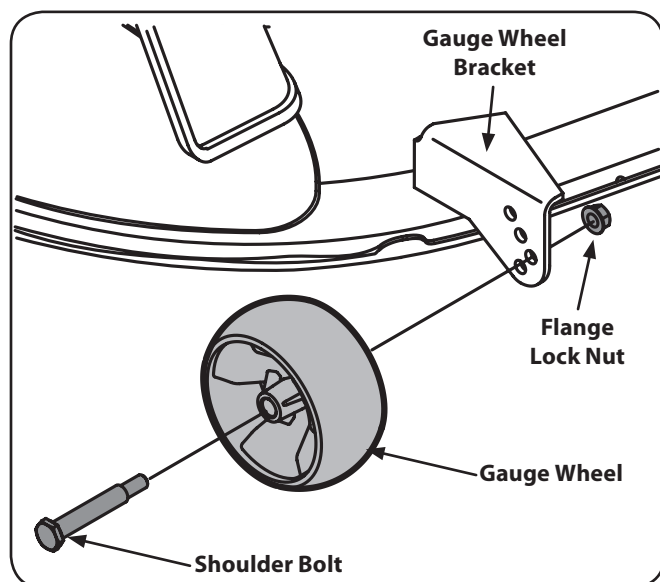


Figure 6-6

- c. Place the deck lift handle in the desired mowing height setting.
- d. Reinsert the shoulder bolts (with each gauge wheel) into the index hole that leaves approximately $\frac{1}{4}$ - $\frac{1}{2}$ " between the bottom of the wheel and the pavement.

Parking Brake Adjustment

If the rider does not come to a complete stop when the park/ brake pedal is completely engaged, or if the rider's rear wheels can roll with the parking brake applied (transmission bypass rods engaged), the brake is in need of adjustment. See your Cub Cadet dealer to have the brake properly adjusted.



WARNING! Have your rider serviced by qualified service personnel using only identical replacement parts. This will ensure that the safety of the rider is maintained.

NOTE: The electrical components on this rider are not user serviceable. Please contact an authorized Cub Cadet service dealer for any service needs.

Blade Care



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



WARNING! After striking a foreign object, stop the rider. Thoroughly inspect the machine for any damage. Repair the damage before starting and operating.

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary. Follow the steps below for blade service.

1. The deck on the rider should not be removed. To access the blades the rider can be placed on a lift, driven on ramps or placed on jack stands.



WARNING: Be sure the rider is secured and the parking brake is set when removing the blades.

2. Remove the hex screw and the blade bell support which holds the blade and the blade adapter to the deck motor. See Figure 7-1.

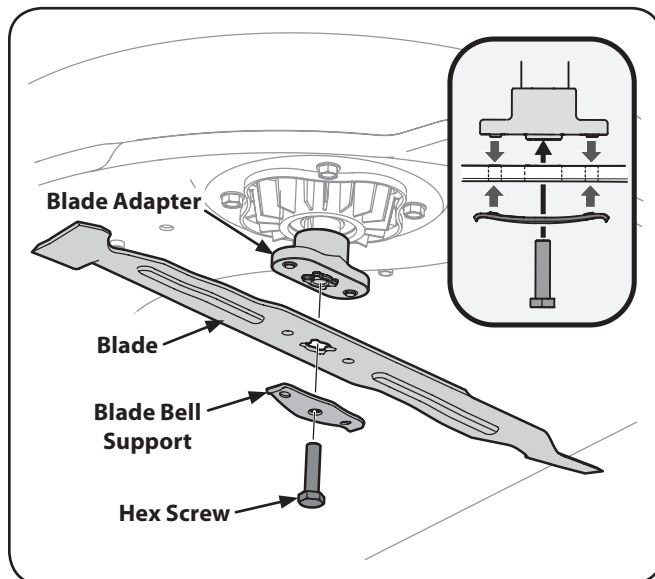


Figure 7-1

3. Remove blade and adapter from the deck motor spindle. See Figure 7-1.

4. Balance the blade on a round shaft screwdriver to check. Remove metal from the heavy side until it balances evenly. When sharpening the blade, follow the original angle of the blade and cutting edge. Grind or file each cutting edge equally to keep the blade balanced.



WARNING: An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to the motor or the mounting hardware which could cause personal injury.

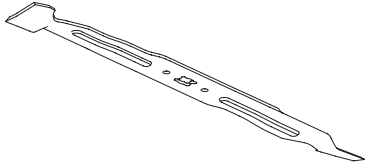
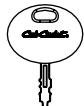
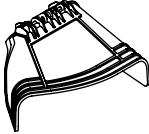
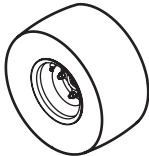
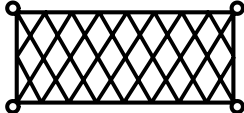
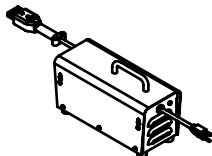
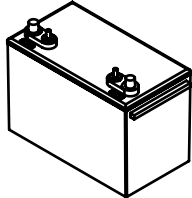
5. Visually inspect the blade adapter for any damages or cracks.
6. Lubricate the inner surface of the blade adapter with light oil. Slide the blade adapter onto the deck motor spindle. Place the blade on the adapter such that the side of the blade marked "Bottom" (or with part number) faces the ground when the rider is in the operating position. Make sure that the blade is aligned and seated on the blade adapter flanges.
6. Place blade bell support on the blade. Align notches on the blade bell support with small holes in blade.
7. Replace hex bolt and tighten torque to 450 in. lbs. min., 600 in. lbs. max.

To ensure safe operation of your rider, periodically check the blade bolt for correct torque.

Problem	Cause	Remedy
Excessive vibration	1. Damaged or bent cutting blade. 1. Cutting blade loose or unbalanced.	1. Replace blade. 2. Tighten blade or remove and balance.
Uneven cut	3. Uneven tire pressure. 4. Deck not leveled properly. 5. Dull blade.	1. Check tire pressure in all four tires. 2. Perform side-to-side deck adjustment. 3. Sharpen or replace blade.
Mower will not mulch grass (If Equipped w/Mulching Kit)	1. Blade speed too low. 2. Excessively high grass. 3. Wet grass. 4. Dull blade.	1. Turn blade boost on. 2. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath. 3. Do not mulch when grass is wet. 4. Sharpen or replace blade.
Tractor Stopped or will not start	1. Service. 2. Left hub fault. 3. Right hub fault. 4. Drive sensor fault. 5. Over-voltage 6. Pre-charge failure. 7. Left hub communication failure. 8. Right hub communication failure. 9. Left deck communication failure. 10. Right deck communication failure. 11. Contactor tips welded closed. 12. Self-test failure. 13. Contactor seat switch failure. 14. Battery charger plugged in.	1. Shut off and restart tractor. If problem persists contact qualified service personnel. 2. Shut off and restart tractor. If problem persists contact qualified service personnel. 3. Shut off and restart tractor. If problem persists contact qualified service personnel. 4. Shut off and restart tractor. If problem persists contact qualified service personnel. 5. Shut off and restart tractor. If problem persists contact qualified service personnel. 6. Shut off and restart tractor. If problem persists contact qualified service personnel. 7. Shut off and restart tractor. If problem persists contact qualified service personnel. 8. Shut off and restart tractor. If problem persists contact qualified service personnel. 9. Shut off and restart tractor. If problem persists contact qualified service personnel. 10. Shut off and restart tractor. If problem persists contact qualified service personnel. 11. Shut off and restart tractor. If problem persists contact qualified service personnel. 12. Shut off and restart tractor. If problem persists contact qualified service personnel. 13. Check to see if seat switch is plugged in. Shut off and restart tractor. If problem persists contact qualified service personnel. 14. Unplug charger and return to the start-up prompt.

Problem	Cause	Remedy
The blades do not rotate/ blades stopped	1. Left deck fault. 2. Right deck fault. 3. Overload 4. Low battery. 5. Steering sensor fault. 6. Brake sensor fault.	1. Shut off and restart tractor. If problem persists contact qualified service personnel. 2. Shut off and restart tractor. If problem persists contact qualified service personnel. 3. Allow deck motors to cool. Raise deck height. 4. Return home, plug into charger. 5. Shut off and restart tractor. If problem persists contact qualified service personnel. 6. Shut off and restart tractor. If problem persists contact qualified service personnel.
The blades do not rotate in reverse	1. Blades stopped	1. Restart blades. Make sure Reverse Caution Mode is activated.
Reduced speed	1. Low Battery 2. Overload 3. Steering sensor fault. 4. Brake sensor fault.	1. Charge the battery as instructed in the battery charger manual. 2. Raise deck. 3. Shut off and restart tractor. If problem persists contact qualified service personnel. 4. Shut off and restart tractor. If problem persists contact qualified service personnel.

NOTE: Many parts on this tractor are not customer serviceable. Please contact an authorized Cub Cadet dealer for any service needs for parts not listed below.

Component	Part Number and Description
	942-04403 Blade
	734-04155 Deck Wheel
	625-05000 Ignition Key
	631-04288 Chute Deflector
	634-04293 Wheel Assembly
	634-04711 Caster Wheel Assembly
	727-04402 Cargo Net
	725-05350 Charger
	725-05395 * Battery * — This part can only be ordered and installed by an Authorized Cub Cadet Dealer.

Part No.	Part
19A70029100	Mulch Kit
19A70033100	Hitch Kit

[illegible]

[illegible]

CUB CADET LLC

MANUFACTURER'S LIMITED WARRANTY

FOR ELECTRIC RESIDENTIAL ZERO-TURN ("E-RZT") MOWERS

IMPORTANT: To obtain warranty coverage owner must present an original proof of purchase and applicable maintenance records to the servicing dealer. Please see the operator's manual for information on required maintenance and service intervals.

The limited warranty set forth below is given by Cub Cadet LLC with respect to new merchandise purchased or leased and used in the United States and/or its territories and possessions, and by MTD Products Limited with respect to new merchandise purchased or leased and used in Canada and/or its territories and possessions (either entity respectively, "Cub Cadet").

This warranty is in addition to any applicable emissions warranty provided with your product.

Cub Cadet warrants this entire product (excluding its *Normal Wear Parts*, and *Attachments* as described below) against defects in material and workmanship for a period of three (3) years or one hundred twenty (120) operation hours, whichever comes first, commencing on the date of original retail purchase or lease and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship.

Normal Wear Parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of original purchase or lease. Normal wear parts include, but are not limited to items such as: blades, blade adapters, grass bags, rider deck wheels, seats, and tires.

Batteries are warranted to maintain at least half of their original charge holding capacity for the duration of this warranty. If any original equipment battery loses more than half of its charge holding capacity as determined by your Cub Cadet dealer or a generally accepted and reliable battery capacitance testing method it shall be considered defective for purposes of the warranty, Cub Cadet will replace any such defective battery free of charge under the terms of this warranty. Any replacement battery will be warranted for the remainder of the original warranty period or 12 months from installation whichever is longer.

Attachments — Cub Cadet warrants attachments for this product against defects in material and workmanship for a period of one (1) year, commencing on the date of the attachment's original purchase or lease. Attachments include, but are not limited to items such as: grass collectors and mulch kits.

This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by Cub Cadet for use with the product(s) covered by this manual will void your warranty as to any resulting damage. In addition, Cub Cadet may deny warranty coverage if the hour meter, or any part thereof, is altered, modified, disconnected or otherwise tampered with.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE AND APPLICABLE MAINTENANCE RECORDS, through your local authorized service dealer. To locate the dealer in your area:

In the U.S.A.:

Check your Yellow Pages, or contact Cub Cadet LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, call 1-877-282- 8684 or log on to our website at www.cubcadet.com.

In Canada:

Contact MTD Products Limited, Kitchener, ON N2G 4J1, call 1-800-668-1238 or log on to our website at www.mtdcanada.com.

Without limiting the foregoing, this limited warranty does not provide coverage in the following cases:

- Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
- Service completed by someone other than an authorized service dealer.
- Cub Cadet does not extend any warranty for products sold or exported outside of the United States and/or Canada, and their respective possessions and territories, except those sold through Cub Cadet's authorized channels of export distribution.
- Replacement parts and/or accessories that are not genuine Cub Cadet parts.
- Transportation charges and service calls.

There are no implied warranties, including without limitation any implied warranty of merchantability or fitness for a particular purpose. No warranties shall apply after the applicable period of express written warranty above. No other express warranties beyond those mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Cub Cadet. The exclusive remedy is repair or replacement of the product as set forth above. The terms of this warranty provide the sole and exclusive remedy arising from the sale and/or lease of the products covered hereby. Cub Cadet shall not be liable for any incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

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

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW LOCAL LAWS RELATE TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights that vary in different jurisdictions.

Cub Cadet LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019, Phone: 1-877-282-8684
MTD Products Limited, Kitchener, ON N2G 4J1, Phone: 1-800-668-1238