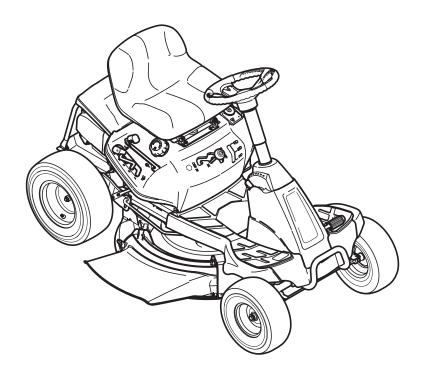
# Cub Cadet.

# **OPERATOR'S MANUAL**



**CC 30** 

# **A** 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** 

To The Owner

# **Thank You**

Thank you for purchasing a lawn tractor manufactured by Cab Cadet. 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. Cab Cadet reserves the right to change product specifications, designs and equipment without notice and without incurring obligation.

If applicable, the power testing information used to establish the power rating of the engine equipped on this machine can be found at www.opei.org or the engine manufacturer's web site.

If you have any problems or questions concerning the machine, phone a authorized Cab Cadet service dealer or contact us directly. Cab 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

The engine manufacturer is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your machine, for more information.

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Record Product Information	Model Number
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 NUMBER
Before setting up and operating your new equipment, please locate the model plate on the equipment and record the	MODEL NUMBER  SERIAL NUMBER

# **Customer Support**

Please do NOT return the machine to the retailer or dealer without first contacting our Customer Support Department.

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

- ♦ Call a Customer Support Representative at (800) 965-4CUB
- ♦ Locate your nearest Cub Cadet Dealer at (877) 282-8684
- ♦ Write us at 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!** Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to State of California to cause cancer and birth defects or other reproductive harm.



**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 hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

# **General Operation**

- Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Be familiar with all controls and their proper operation.
   Know how to stop the machine and disengage them quickly.
- 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.
- Never allow adults to operate this machine without proper instruction.
- 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.

- 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.
- 7. 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.
- 8. 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.
- 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.
- 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 or entire grass catcher in its proper place.
- Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.

- A missing or damaged discharge cover can cause blade contact or thrown object injuries.
- 13. Stop the blade(s) when crossing gravel drives, walks, or roads and while not cutting grass.
- 14. Watch for traffic when operating near or crossing roadways. This machine is not intended for use on any public roadway.
- Do not operate the machine while under the influence of alcohol or drugs.
- 16. Mow only in daylight or good artificial light.
- 17. Never carry passengers.
- Disengage blade(s) before shifting into reverse. Back up slowly. Always look down and behind before and while backing to avoid a back-over accident.
- Slow down before turning. Operate the machine smoothly.
   Avoid erratic operation and excessive speed.
- Disengage blade(s), set parking brake, stop engine and wait until the blade(s) come to a complete stop before removing grass catcher, emptying grass, unclogging chute, removing any grass or debris, or making any adjustments.
- Never leave a running machine unattended. Always turn off blade(s), place transmission in neutral, set parking brake, stop engine and remove key before dismounting.
- 22. 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.
- 23. Muffler and engine become hot and can cause a burn. Do not touch.
- 24. 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.
- 25. Disengage all attachment clutches, depress the brake pedal completely and shift into neutral before attempting to start engine.
- 26. Your machine is designed to cut normal residential grass of a height no more than 10". Do not attempt to mow through unusually tall, dry grass (e.g., pasture) or piles of dry leaves. Dry grass or leaves may contact the engine exhaust and/ or build up on the mower deck presenting a potential fire hazard.
- 27. 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.
- 28. 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.
- 29. 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 12 degrees as shown on the slope gauge, do not operate this machine on that area or serious injury could result.

#### Do:

- Mow up and down slopes, not across. 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.
- Use slow speed. Choose a low enough speed setting so that you will not have to stop or shift while on the slope. Tires may lose traction on slopes even though the brakes are functioning properly. Always keep machine in gear when going down slopes to take advantage of engine braking action.
- 4. Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- 5. Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do
  not make sudden changes in speed or direction. Rapid
  engagement or braking could cause the front of the
  machine to lift and rapidly flip over backwards which could
  cause serious injury.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blade(s) and proceed slowly straight down the slope.

#### Do Not:

- Do not turn on slopes unless necessary; then, turn slowly and gradually downhill, if possible.
- 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 use a grass catcher on steep slopes.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not shift to neutral and coast downhill. Over-speeding may cause the operator to lose control of the machine resulting in serious injury or death.
- 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 loose control (e.g. tractor may speed up, braking and steering ability are reduced, attachment may jack-knife and cause tractor to overturn).

#### Children

- 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.
  - 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
  - Before and while backing, 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. To avoid back-over accidents, always disengage the cutting blade(s) before shifting into Reverse. If equipped, the "Reverse Caution Mode" should not be used when children or others are around.
  - g. Keep children away from hot or running engines. They can suffer burns from a hot muffler.
  - h. 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

- 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.
- Always use extra caution when towing with a machine capable of making tight turns (e.g. "zero-turn" ride-on mower). Make wide turns to avoid jack-knifing.
- 6. Travel slowly and allow extra distance to stop.
- 7. Do not shift to neutral and coast downhill.

#### Service

# Safe Handling of Gasoline:

- To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.
  - a. Use only an approved gasoline container.
  - Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
  - c. When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
  - d. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
  - Extinguish all cigarettes, cigars, pipes and other sources of ignition.
  - f. Never fuel machine indoors.
  - g. Never remove gas cap or add fuel while the engine is hot or running. Allow engine to cool at least two minutes before refueling.
  - h. Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to allow space for fuel expansion.
  - i. Replace gasoline cap and tighten securely.
  - If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
  - k. To reduce fire hazards, keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel soaked debris.
  - Never store the machine or fuel container inside where there is an open flame, spark or pilot light as on a water heater, space heater, furnace, clothes dryer or other gas appliances.
  - M. Allow a machine to cool at least five minutes before storing.

#### **General Service**

- Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless, and deadly gas.
- 2. Before cleaning, repairing, or inspecting, make certain the blade(s) and all moving parts have stopped. Disconnect the spark plug wire and ground against the engine to prevent unintended starting.

- 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 MTD Service Dealer.
- Check brake operation frequently as it is subjected to wear during normal operation. Adjust and service as required.
- 5. Check the blade(s) and engine mounting bolts 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!"
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 8. Never tamper with the safety interlock system or other safety devices. Check their proper operation regularly.
- After striking a foreign object, stop the engine, disconnect the spark plug wire(s) and ground against the engine. Thoroughly inspect the machine for any damage. Repair the damage before starting and operating.
- Never attempt to make adjustments or repairs to the machine while the engine is running.
- 11. Grass catcher components and the discharge cover are 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!"
- 12. Do not change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
- Maintain or replace safety and instruction labels, as necessary.
- 14. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
- 15. According to the Consumer Products Safety Commission (CPSC) and the U.S. Environmental Protection Agency (EPA), this product has an Average Useful Life of seven (7) years, or 270 hours of operation. At the end of the Average Useful Life have the machine inspected annually by an authorized service dealer to ensure that all mechanical and safety systems are working properly and not worn excessively. Failure to do so can result in accidents, injuries or death.

# Do not modify engine

To avoid serious injury or death, do not modify engine in any way. Tampering with the governor setting can lead to a runaway engine and cause it to operate at unsafe speeds. Never tamper with factory setting of engine governor.

# **Notice Regarding Emissions**

Engines which are certified to comply with California and federal EPA emission regulations for SORE (Small Off Road Equipment) are certified to operate on regular unleaded gasoline, and may include the following emission control systems: Engine Modification (EM), Oxidizing Catalyst (OC), Secondary Air Injection (SAI) and Three Way Catalyst (TWC) if so equipped.

When required, models are equipped with low permeation fuel lines and fuel tanks for evaporative emission control. California models may also include a carbon canister. Please contact Customer Support for information regarding the evaporative emission control configuration for your model.

# **Spark Arrestor**



**WARNING!** This machine is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brushcovered or grass-covered land unless the engine's exhaust system is equipped with a spark arrestor meeting applicable local or state laws (if any).

If a spark arrestor is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

A spark arrestor for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.



**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.

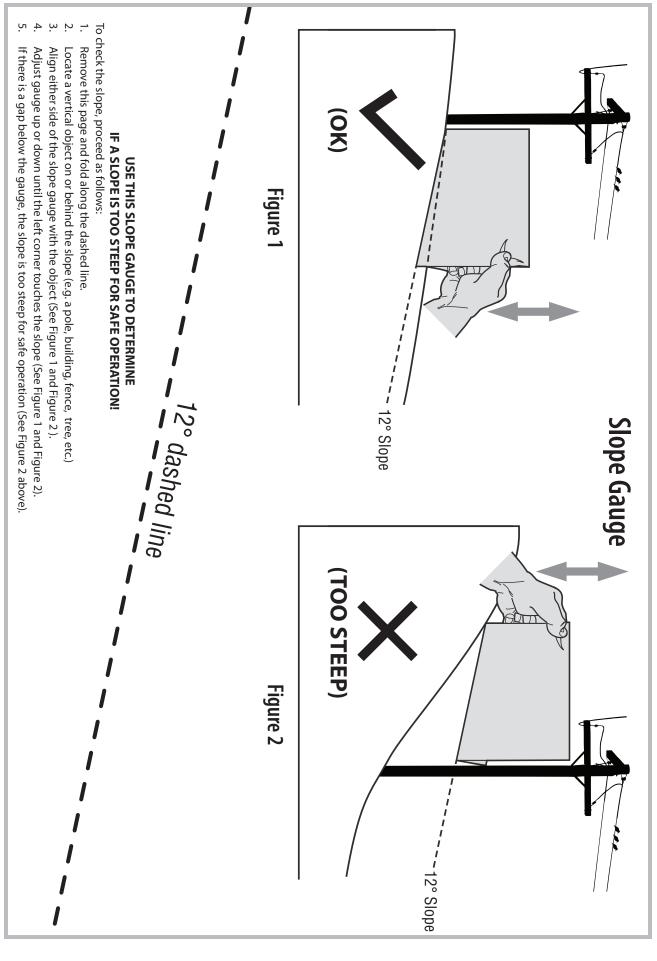
# **SAVE THESE INSTRUCTIONS!**

# **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
	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.
	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.
	DANGER— ROTATING BLADES Always look down and behind before and while backing to avoid a back-over accident.
	WARNING—THROWN OBJECTS This machine may pick up and throw and objects which can cause serious personal injury.
	WARNING—THROWN OBJECTS This machine may pick up and throw and objects which can cause serious personal injury.
	BYSTANDERS Keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation.
MAX 12°	WARNING— SLOPE OPERATION  Do not operate this machine on a slope greater than 12 degrees.
	WARNING— HOT SURFACE Engine parts, especially the muffler, become extremely hot during operation. Allow engine and muffler to cool before touching.
	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.

Symbol	Description
Jan Hy	WARNING—GASOLINE IS FLAMMABLE Allow the engine to cool at least two minutes before refueling.
	WARNING— CARBON MONOXIDE  Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
	DANGER— ROTATING BLADES  Do not step on the cutting deck.



or if you feel uneasy on it, do not mow it. Always mow up and down slopes, never across the face of slopes.

**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 12 degrees. All slopes require extra caution. If you cannot back up the slope



# **Contents of Crate**

- One Riding Mower
- One Steering Wheel/Shaft Assembly
- · One Rear Hitch Plate
- One Riding Mower Operator's Manual
- One Engine Operator's Manual
- One Seat Assembly
- One Rear Engine Cover
- One Oil Drain Sleeve
- One Steering Pedestal Cap
- One Hardware Pack

- One Discharge Chute Assembly
- One Mulch Plug
- One Product Registration Card
- One Front Bumper

# **Contents of Hardware Pack**

Before beginning installation, remove all the contents from the crate and all the hardware from the pack from to make sure everything is present. Hardware is listed below.

- Hitch Plate
- Seat Mounting Bracket (with two shoulder bolts & lock nuts installed)

# **Recommended Tools for Assembly**

- 3/8" Wrench (or socket)
- 1/2" Wrench (or socket)
- Phillips Screw Driver
- 1/4" Drive Ratchet
- 9/16" Socket
- 7/16" wrench

# **Installing The Steering Wheel Assembly**

If the steering wheel assembly for your tractor did not come alredy installed, follow the steps below:

- 1. Slide the pedestal cap onto the steering shaft so that when the steering shaft is installed on the tractor, the pedestal cap will be upright as shown in Figure 3-1.
- 2. Remove the shoulder bolt and lock nut from the steering shaft and retain for later steps.
- With the steering wheel assembly upright and positioned over the lower steering shaft on the tractor, align the steering wheel so that with the tractor wheels straight, the large opening on the steering wheel is facing forward.

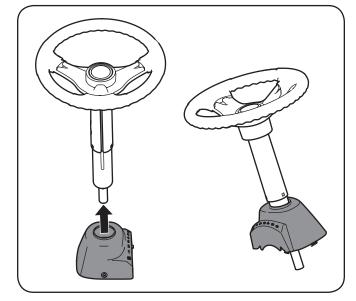


Figure 3-1

4. Lower the steering wheel assembly onto the lower steering shaft and secure with the shoulder bolt and lock nut previously removed. See Figure 3-2.

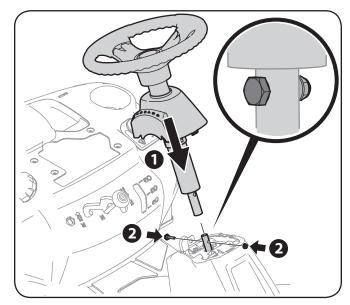


Figure 3-2

- 5. Tighten the shoulder bolt and lock nut using a 9/16" wrench and 7/16" wrench or socket.
- Remove the pedestal cap mount hex screw factory installed and located on the tractor's steering console. Retain the screw for later instructions.
- Slide the Pedestal cap down onto the tractor (1) and slighty rotate to the right to clip into place. Secure the pedestal with the hex screw (2) previously removed. See Figure 3-3.

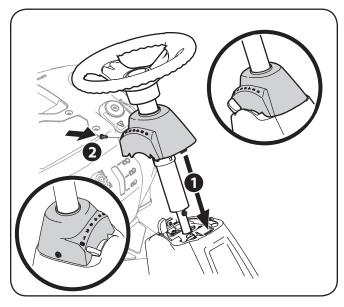


Figure 3-3

# **Attaching The Seat**

If the seat for your tractor was not attached at the factory, follow the applicable instructions below to attach it.

 Remove the shoulder bolts and lock nuts from the seat mounting bracket included in your hardware pack. See Figure 3-4.

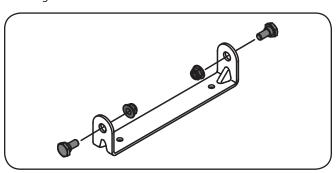


Figure 3-4

2. Remove the two self-tapping bolts factory installed on the tractor. See Figure 3-5.

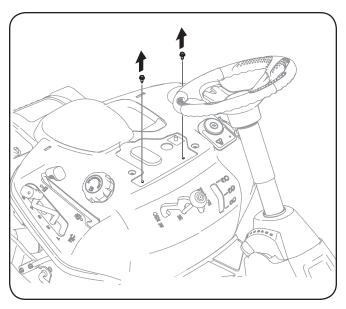


Figure 3-5

- Align the seat bracket in place over the holes from where the self-tapping bolts were removed, as shown in Figure 3-6.
- Using a ¼-inch drive ratchet with a ¾s" socket, secure the seat bracket with the self-tapping bolts removed in step 2.
   See Figure 3-6.

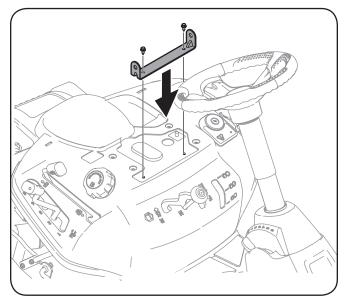


Figure 3-6



**CAUTION:** Do *not* use any type of power tool (e.g. impact gun or electric drill with nut driver attached) when tightening the self-tapping bolts to attach the seat bracket.

5. Position the seat assembly over the seat mounting bracket, aligning the holes provided.

6. Install the two shoulder bolts and lock nuts removed from the seat mounting bracket in Step 1. See Figure 3-7.

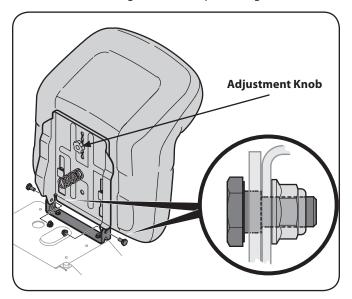


Figure 3-7

**Note:** Make sure that the bolt's shoulder is completely recessed into the seat bracket when securing the lock nut.

7. To adjust the position of the seat, remove the adjustment knob on the bottom of the seat. Slide the seat forward or backward as desired. Retighten the adjustment bolt. Refer to Figure 3-7.

# **Installing The Deck Chute**



**WARNING!** NEVER operate this tractor without either the mulch plug or deck chute installed.

- 1. Remove the wing knobs installed on the mowing deck and retain for later installation.
- Install the deck chute into the deck discharge opening on the deck. The studs on the deck surface will fit through the holes on the upper portion of the deck chute. The small tab on the deck lip area will fit through the square cutout on the lower portion of the deck chute. See Figure 3-8.

**Note:** Make certain that the upper-rear portion of deck chute is depressing the safety switch located on the deck surface. The engine will not start without the deck chute properly in place.

3. Secure the deck chute by tightening the wing knobs removed earlier. See Figure 3-8.

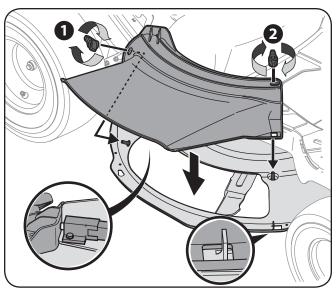


Figure 3-8

# **Installing the Mulch Plug**



**WARNING!** NEVER operate this tractor without either the mulch plug or deck chute installed.

- Remove the wing knobs installed on the mowing deck and retain for later installation.
- 2. Install the mulch plug into the deck discharge opening on the deck. The studs on the deck surface will fit through the holes on the upper portion of the mulch plug. The small tab on the deck lip area will fit through the square cutout on the lower portion of the mulch plug. See Figure 3-9.

**Note:** Make certain that the upper-rear portion of mulch plug is depressing the safety switch located on the deck surface. The engine will not start without the mulch plug properly in place.

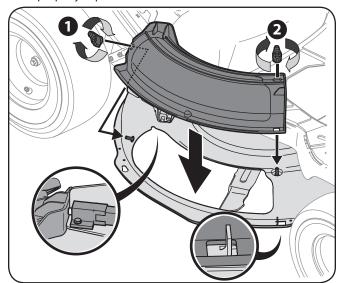


Figure 3-9

Secure the mulch plug by tightening the wing knobs removed earlier.

# **Install The Rear Engine Cover**

- Remove the two factory installed hex screws located on the rear engine cover. Retain the screws for later instructions. See Figure 3-10.
- Install the rear engine cover by positioning it in place as shown in Figure 3-10. Tip the engine cover forward to fit it into the slots provided, then rotate it backwards to align the mounting holes.

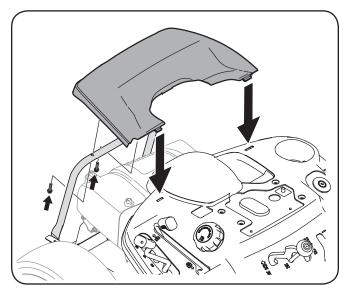


Figure 3-10

Secure the cover with the two hex screws previously removed. Do not over-tighten.

# **Installing the Hitch Plate**

- Remove the factory installed hitch plate mounting hardware located on the rear of the tractor. See Figure 3-11.
- 2. Position the hitch plate, packed with the loose parts, with the flat side up as shown in Figure 3-11. Secure using the two bolts and hex nuts previously removed.

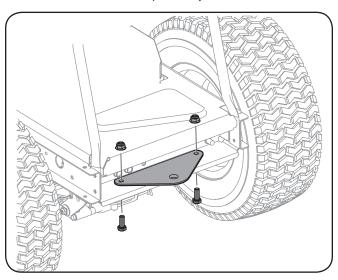


Figure 3-11

# **Installing the Bumper**

- 1. Remove the two screws as shown in Figure 3-12.
- Position the bumper over the mounting holes and secure using the hardware removed in Step 1, as shown in Figure 3-12

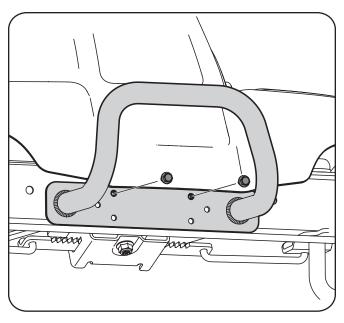


Figure 3-12

# **Connecting the Battery Cables**



#### **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.



**CAUTION:** When attaching battery cables, always connect the POSITIVE (Red) wire to its terminal first, followed by the NEGATIVE (Black) wire.

For shipping reasons, both battery cables on your equipment may have been left disconnected from the terminals at the factory. To connect the battery cables, proceed as follows:

**NOTE:** The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (–).

 Remove the factory installed hex bolts and sems nuts located on the end of the wiring harness. Retain the hardware for later instructions. 2. Remove the plastic cover, if present, from the positive battery terminal and attach the red cable to the positive battery terminal (+) with one of the bolts and hex nuts, previously removed, using a 7/16 inch wrench and socket. See Figure 3-13.

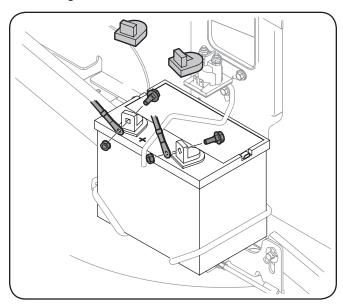


Figure 3-13

- Remove the plastic cover, if present, from the negative battery terminal and attach the black cable to the negative battery terminal (–) with the remaining bolt and hex nut.
   See Figure 3-13.
- 4. Position the red rubber boot over the positive battery terminal to help protect it from corrosion.

**NOTE:** If the battery is put into service after the date shown on top/side of battery, charge the battery as instructed in the Maintenance section your Operator's Manual prior to operating the tractor.

## **Tire Pressure**



**WARNING!** Equal tire pressure should be maintained at all times. Never exceed the maximum inflation pressure shown on the sidewall of the tire.

The recommended operating tire pressure is:

- Approximately 10 psi for the rear tires
- Approximately 14 psi for the front tires

**IMPORTANT:** 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.

# Gas and Oil Fill-up

The gasoline tank is located under the seat. Do not overfill.



**WARNING!** Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes, and other sources of ignition.

IMPORTANT: Your tractor is shipped with motor oil in the engine. However, you MUST check the oil level before operating. Be careful not to overfill.

Service and check the engine oil as instructed in the separate Engine Owner's Manual packed with your tractor. Read the instructions carefully.

IMPORTANT: It is important to NOT top off your fuel tank when filling with fuel. Leave an expansion area available inside the fuel tank to allow for the fuel to expand and for proper ventilation. Otherwise the unit may not run properly. Fill the tank in accordance with Figure 3-14.

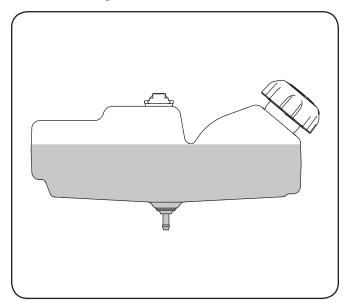


Figure 3-14

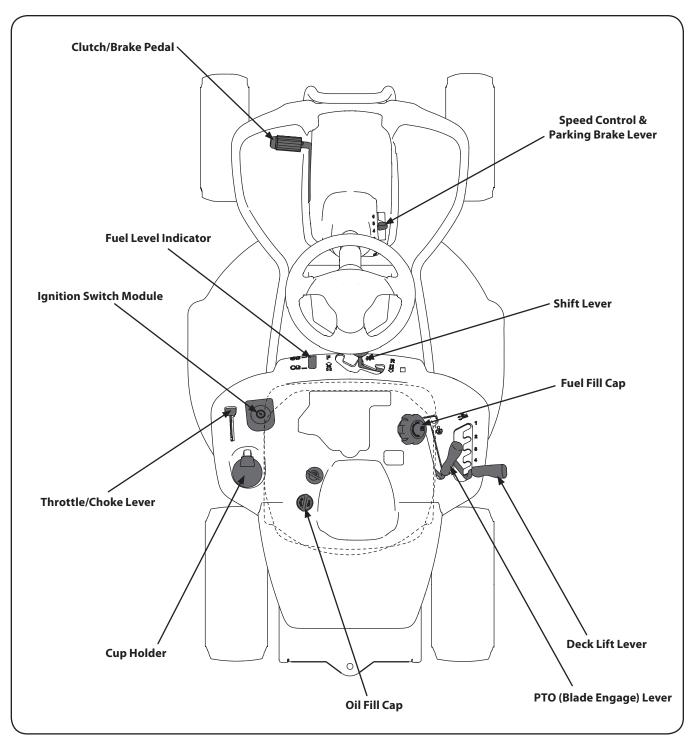


Figure 4-1

Lawn Tractor controls and features are illustrated in Figure 4-1 and described on the following pages.



**WARNING!** Read and follow all safety rules and instructions in this manual, including the entire Operation section, before attempting to operate this machine. Failure to comply with all safety rules and instructions may result in personal injury.

#### Throttle / Choke Control

The throttle control lever is located on the left fender of the tractor seated in the operator's position, see Figure 4-1. This lever controls the speed of the engine, as well as the choke when it is pushed all the way forward. When set in a given position, the throttle will maintain a uniform engine speed.

**IMPORTANT:** When operating the tractor with the cutting deck engaged, be certain that the throttle lever is always in the FAST (rabbit) position.

Moving the throttle lever all the way forward activates the engine's choke control. See Figure 4-2. Activating the choke control closes the choke plate on the carburetor and aids in starting the engine.

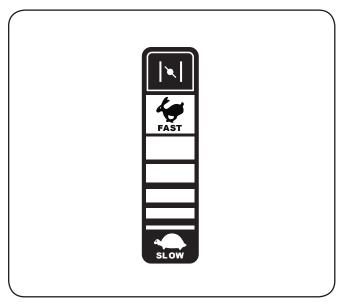


Figure 4-2

Refer to Starting The Engine in the Operation section of this manual for detailed starting instructions.

#### **Ignition Switch Module**

The ignition switch module is located on the left fender of the tractor seated in the operator's position, adjacent to the Throttle/Choke Control. To start the engine, insert the key into the ignition switch module and turn clockwise to the START position. Release the key into the NORMAL MOWING MODE position once the engine has fired.

To stop the engine, turn the ignition key counterclockwise to the STOP position. See Figure 4-3.

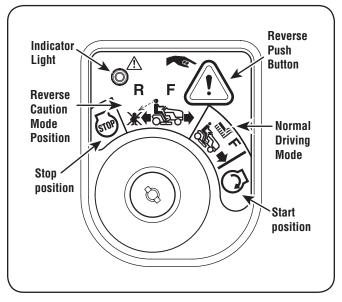


Figure 4-3



**WARNING!** Never leave a running machine unattended. Always disengage PTO, move shift lever into neutral position, set parking brake, stop engine and remove key to prevent unintended starting.

**IMPORTANT:** Prior to operating the tractor, refer to both Safety Interlock Switches and Starting The Engine in the Operation section of this manual for detailed instructions regarding the Ignition Switch Module and operating the tractor in REVERSE CAUTION MODE.

#### Clutch-Brake Pedal

The clutch-brake pedal is located on the left side of the lawn tractor, along the running board. Depress the clutch-brake pedal part way down when slowing the tractor by changing speeds (Refer to Speed Control Lever). Depress the pedal all the way down to engage the disc brake and bring the tractor to a complete stop.

**NOTE:** The clutch-brake pedal must be completely depressed to start the engine. Refer to Safety Interlock Switches in the Operation section of this manual.

#### Shift Lever

The shift lever is located on the control panel just below the seat, in the center of the tractor. It has three positions, FORWARD, NEUTRAL and REVERSE. **The brake pedal must be completely depressed** and the tractor **must not be in motion** when moving the shift lever. See Figure 4-4.

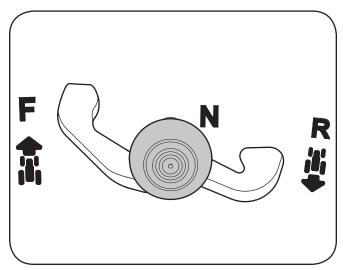


Figure 4-4

**IMPORTANT:** Never force the shift lever. Doing so may result in serious damage to the tractor's transmission.

# **Speed Control Lever**

The speed control lever, located on the right side of the tractor's steering console, allows you to regulate the ground speed of the lawn tractor.

To use, depress the clutch-brake pedal and move the lever out of the parking brake notch and forward to increase the tractor's ground speed. When a desired speed has been reached, release the lever into an appropriate notch to maintain that speed.

To slow the tractor's ground speed, depress the clutch-brake pedal and move the speed control lever rearward and release it into a notch.

## **Parking Brake**

To set the parking brake, fully depress the clutch-brake pedal. Move the speed control lever all the way down and into the parking brake position. Release the clutch-brake pedal to allow the parking brake to engage.

To release the parking brake, depress the clutch-brake pedal and move the speed control lever out of the parking brake position into the desired position. Release the clutch-brake pedal.

**NOTE:** The parking brake must be set if the operator leaves the seat with the engine running or the engine will automatically shut off.

#### **Fuel Lever Indicator**

The Fuel Lever Indicator is located below the seat on the left hand side from the operator's position in the controls panel. Use this window to identify the tractor's fuel needs. See Figure 4-5.

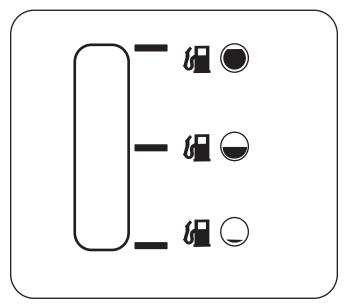


Figure 4-5

#### **Deck Lift Lever**

Found on your tractor's right fender, the deck lift lever is used to change the height of the cutting deck. To use, move the lever to the left, then place in the notch best suited for your application.

#### PTO (Blade Engage) Lever

Found on the tractor's right fender, the PTO (blade engage) lever is used to engage power to the cutting deck. To operate, move the lever all the way forward. Moving the lever all the way rearward into the PTO OFF position disengages power to the cutting deck.

**NOTE:** The PTO (blade engage) lever must be in the disengaged (PTO OFF) position when starting the engine.

# **Fuel Fill Cap**

The Fuel Fill Cap is located below the seat. Refer to the Set-up section in this manual for instructions on fueling this tractor.

# Oil Fill Cap

The Oil Fill Cap is located below the seat. Refer to the Set-up section in this manual for instructions on checking and adding oil to this tractor.

Operation 5

# **▲**WARNING

# **Avoid Serious Injury or Death**

- Know location and function of all controls.
- Remove objects which could be thrown by the blades.
- Go up and down slopes, not across.
- Use extra caution on slopes. Do not mow slopes greater than 12 degrees. Avoid sudden turns. Use low speed.
- Do not operate machine where it could tip or slip.
- If machine stops going uphill, stop blades and back down slowly.
- Before leaving operator's position, disengage blades, engage parking brake, shut off and remove key.
- Be sure blades and engine are stopped before placing hands or feet near blades.
- Keep safety devices (guards, shields, switches, etc.) in place and working.
- Keep bystanders away.
- Allow machine to cool before fueling or storing.
- Keep machine free of debris.

## **Read Operator's Manual**

# **Safety Interlock Switches**

This tractor is equipped with a safety interlock system for the protection of the operator. If the interlock system should ever malfunction, do not operate the tractor. Contact an authorized service dealer.

- The safety interlock system prevents the engine from cranking or starting unless the parking brake is engaged, and the PTO (Blade Engage) lever is in the disengaged (OFF) position.
- The engine will automatically shut off if the operator leaves the seat before engaging the parking brake.
- The engine will automatically shut off if the operator leaves the tractor's seat with the PTO (Blade Engage) lever in the engaged (ON) position, regardless of whether the parking brake is engaged.
- With the ignition key in the NORMAL MOWING position, the PTO (Blade Engage) clutch will automatically shut off if the PTO (Blade Engage) lever is moved into the engaged (ON) position with the shift lever in position for reverse travel.
- The engine will automatically shut off if the mulch plug, deck chute or bagger chute is removed, regardless of whether the parking brake is engaged or the PTO (Blade Engage) lever is in the disengaged (OFF) position.



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

# **Engaging the Parking Brake**

# To engage the parking brake:

- Fully depress the clutch-brake pedal and hold it down with your foot.
- Move the parking brake lever down into the parking brake position.
- Release the clutch-brake pedal to allow the parking brake to engage.

#### To release the parking brake:

 Depress the clutch-brake pedal and move the parking brake lever out of the parking brake position.

# **Setting the Cutting Height**

 Select the height position of the cutting deck by placing the deck lift lever in any of the different cutting height notches on the right side of the fender.



**WARNING!** Keep hands and feet away from the discharge opening of the cutting deck.

Refer to Leveling the Deck in the Maintenance & Adjustments section of this manual for more detailed instructions regarding deck adjustment.

# **Starting the Engine**



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

**NOTE:** Refer to the Assembly & Set-Up section of this manual for gasoline and oil fill-up instructions.

- 1. Insert the tractor key into the ignition switch module.
- 2. Place the PTO (*Blade Engage*) lever in the disengaged (OFF) position.
- 3. Engage the tractor's parking brake.
- Activate the choke control by moving the throttle/choke control all the way forward into the choke position.
- Turn the ignition key clockwise to the START position.
   After the engine starts, release the key. It will return to the NORMAL MOWING position.



**CAUTION:** Do NOT hold the key in the START position for longer than ten seconds at a time. Doing so may cause damage to your engine's electric starter.

 After the engine starts, deactivate the choke control by placing the throttle control into the FAST position.

**NOTE:** Do NOT operate this unit with the Choke control activated. Doing so will result in a "rich" fuel mixture and can cause the engine to run poorly.

# **Stopping the Engine**



**WARNING!** If you strike a foreign object, stop the engine, disconnect the spark plug wire and ground against the engine. Thoroughly inspect the machine for any damage. Repair the damage before restarting and operating.

- 1. If the blade is engaged, place the PTO (*Blade Engage*) lever in the disengaged (OFF) position.
- 2. Place the throttle/choke control near the SLOW position.
- 3. Turn the ignition key counterclockwise to the STOP position.
- 4. Remove the key from the ignition switch to prevent unintended starting.

# **Driving The Tractor**



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

**WARNING!** Do not leave the seat of the tractor without first placing the PTO (*Blade Engage*) lever in the disengaged (OFF) position, depressing the clutch-brake pedal and engaging the parking brake. If leaving the tractor unattended, also turn the ignition key off and remove the key.

**WARNING!** Always look down and behind before and while backing up to avoid a back-over accident.

- 1. Move the throttle lever into the FAST (rabbit) position.
- Place the shift lever in either the FORWARD or REVERSE position.
- Depress the clutch-brake pedal and move the speed control lever out of the parking brake position and into the desired speed setting.
- 5. Release clutch-brake pedal slowly to put unit into motion.
- The lawn tractor is brought to a stop by depressing the clutch-brake pedal.

**IMPORTANT:** Do NOT use the shift lever to change the direction of travel when the tractor is in motion. Always use the clutch-brake pedal to bring the tractor to a complete stop before shifting.

**IMPORTANT:** First-time operators should use speed positions 1 or 2. Become completely familiar with the tractor's operation and controls before operating the tractor in higher speed positions.

**NOTE:** When operating the unit initially, there will be little difference between the highest two speeds until after the belts have seated themselves into the pulleys during the break-in period.



**WARNING!** Before leaving the operator's position for any reason, disengage the blade, place the shift lever in neutral, engage the parking brake, shut engine off and remove the key.

**IMPORTANT:** When stopping the tractor for any reason while on a grass surface, always:

- 1. Place the shift lever into neutral.
- 2. Engage the parking brake,

Shut the engine off and remove the key. Doing so will
minimize the possibility of having your lawn "browned" by
hot exhaust from your tractor's running engine.

If unit stalls with speed control in high speed, or if unit will not operate with speed control lever in a low speed position, proceed as follows:

- 1. Place shift lever in NEUTRAL.
- 2. Restart engine.
- 3. Place speed control lever in highest speed position.
- 4. Release clutch-brake pedal fully.
- 5. Depress clutch-brake pedal.
- 6. Place speed control lever in desired position.
- 7. Place shift lever in either FORWARD or REVERSE, and follow normal operating procedures.

# **Reverse Caution Mode**

The REVERSE CAUTION MODE position of the key switch module allows the tractor to maneuver in reverse with the blade (PTO) engaged.

**NOTE:** Mowing in reverse is not recommended.



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

To use the REVERSE CAUTION MODE:

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

- Start the engine as previously instructed on the previous page.
- Turn the key from the NORMAL MOWING (Green) position to the REVERSE CAUTION MODE (Yellow) position of the key switch module. See Figure 5-1.

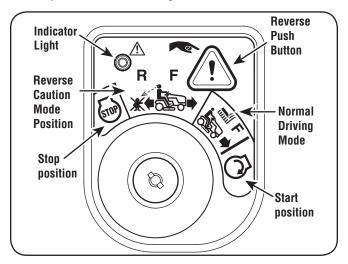


Figure 5-1

3. Press the REVERSE PUSH BUTTON (Orange, Triangular Button) at the top, right corner of the key switch module. The red indicator light at the top, left corner of the key switch module will be ON while activated. See .

- Once activated (indicator light ON), the tractor can be driven in reverse with the cutting blade (PTO) engaged.
- Always look down and behind before and while backing to make sure no children are around. After resuming forward motion, return the key to the NORMAL MOWING position.

The REVERSE CAUTION MODE will remain activated until:

- The key is placed in either the NORMAL MOWING position or STOP position or
- b. The operator leaves the seat.

# **Driving On Slopes**

Refer to the SLOPE GAUGE in the Important Safe Operation Practices section in the front of this manual to help determine slopes where you may operate the tractor safely.



**WARNING!** Do not mow on inclines with a slope in excess of 12 degrees (a rise of approximately 2 feet for every 10 feet). The tractor could overturn and cause serious injury.

- Mow up and down slopes, NEVER across.
- 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.
- Avoid turns when driving on a slope. If a turn must be made, turn down the slope. Turning up a slope greatly increases the chance of a roll over.
- 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 tractor over backward.

# **Engaging the PTO (Cutting Blade)**

Engaging the PTO (Blade Engage) transfers power to the cutting deck. To engage the blade, proceed as follows:

- Move the throttle control lever to the FAST (rabbit) position.
- 2. Grasp the PTO (*Blade Engage*) lever and pivot it all the way forward into the engaged (ON) position.

**Note:** Keep the throttle lever in the FAST (rabbit) position for the most efficient use of the cutting deck.

**IMPORTANT:** The PTO (Blade Engage) lever must be in the disengaged (OFF) position when starting the engine, when traveling in reverse, and if the operator leaves the seat. Refer to Safety Interlock Switches in the Operation section of this manual.

# Mulching

A mulch kit has been supplied with your unit. Mulching is a process of recirculating grass clippings repeatedly beneath the cutting deck. The ultra-fine clippings are then forced back into the lawn where they act as a natural fertilizer. Refer to the Assembly & Set-up section of this manual for instructions on how to install the mulch kit.

# Using the Deck Lift Lever

To raise the cutting deck, move the deck lift lever to the left, then place it in the notch best suited for your application. Refer to Setting The Cutting Height earlier in this section.

# Mowing



**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.

The following information will be helpful when using the cutting deck with your tractor:



**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.

- Do not mow at high ground speed, especially if a mulch kit or grass collector is installed.
- 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 cut the grass too short. Short grass invites weed growth and yellows quickly in dry weather.
- Mowing should always be done with the engine at full throttle.
- Under heavier conditions it may be necessary to go back over the cut area a second time to get a clean cut.
- Do NOT attempt to mow heavy brush and weeds and extremely tall grass. Your tractor is designed to mow lawns, NOT clear brush.
- Keep the blade sharp and replace the blade when worn.
   Refer to Cutting Blade in the Service section of this manual for proper blade sharpening instructions.

#### Maintenance



**WARNING:** Before performing any maintenance or repairs, disengage PTO, move shift lever into neutral position, set parking brake, stop engine and remove key to prevent unintended starting.

# Engine

Refer to the Engine Owner's Manual for engine maintenance instructions.

Check engine oil level before each use as instructed in the Engine Owner's Manual packed with your unit. Follow the instructions carefully.

# **Changing Engine Oil**

For draining oil from the engine's crankcase, proceed as follows:

- Run the engine for a few minutes to allow the oil in the crankcase to warm up. Warm oil will flow more freely and carry away more of the engine sediment which may have settled at the bottom of the crankcase. Use care to avoid burns from hot oil.
- 2. Locate the oil drain valve on the right side of the engine and the oil fill cap on the topside of the engine.
- Unscrew the oil fill cap and remove the dipstick from the oil fill tube.
- 4. Snap the small end of oil drain sleeve onto the space provided around the oil drain plug. See Figure 6-1.

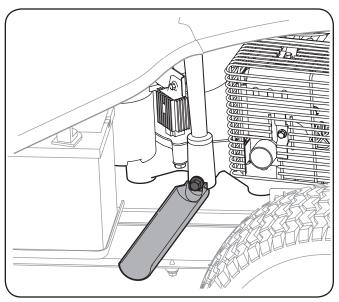


Figure 6-1

5. Remove the oil drain plug and drain the oil into a suitable container with a capacity of no less than 64 oz.

Tip the tractor slightly in the direction of the suitable container to aid in fully draining all of the oil from the engine.



**WARNING!** Before tipping engine or equipment to drain oil, drain fuel from tank by running engine until fuel tank is empty.

- Replace the oil drain plug and tighten. Be careful not to overtighten the oil drain plug.
- Refill the engine with new motor oil as instructed in the Engine Owner's Manual packed with your unit.

**IMPORTANT:** Refer to the Engine Owner's Manual packed with your unit for information regarding the quantity and proper viscosity of motor oil.

#### Air Cleaner

Service the pre-cleaner (*if equipped*) and cartridge/air cleaner element as instructed in the Engine Owner's Manual packed with your unit.

# **Spark Plug**

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season. Refer to the Engine Owner's Manual for correct plug type and gap specifications.

#### Lubrication



**WARNING:** Before lubricating, repairing, or inspecting, always disengage PTO, move shift lever into neutral position, set parking brake, stop engine and remove key to prevent unintended starting.

# **Engine**

Lubricate the engine with motor oil as instructed in the Engine Owner Manual packed with your unit.

#### **Pivot Points & Linkage**

Lubricate all the pivot points on the drive system, parking brake and lift linkage at least once a season with light oil.

#### Rear Wheels

The rear wheels should be removed from the axles once a season. Lubricate the axles and the rims well with an all-purpose grease before re-installing them.

# **Front Axles**

Each end of the tractor's front pivot bar may be equipped with a grease fitting. Lubricate with a grease gun after every 25 hours of tractor operation.

#### **Steering Rack & Pinion**

Once per season, or every 25 hours of operation, it will be necessary to lubricate the steering rack and pinion gear located under the front of the unit. Using standard automotive grease, apply grease to the front side and rear side of the steering rack, as indicated in Figure 6-2.

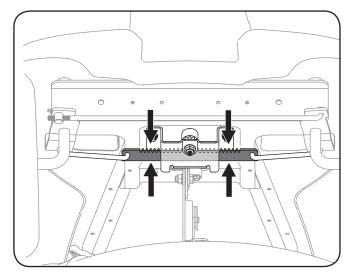


Figure 6-2

# **Cleaning the Engine And Deck**

If the engine has been running, allow it to cool for at least half an hour before cleaning. Periodically remove dirt build-up from engine. Clean cooling fins every 25 hours. Clean with a brush or compressed air.

**IMPORTANT:** Do not spray engine with water to clean because water could contaminate fuel. Using a garden hose or pressure washing equipment can also force water into the air cleaner or muffler opening. Water in the air cleaner will soak the paper element, and water that passes through the element or muffler can enter the cylinder, causing damage.

Any fuel or oil spilled on the machine should be wiped off promptly. Do NOT allow debris to accumulate around the cooling fins of the engine or on any other part of the machine.

**IMPORTANT:** The use of a pressure washer to clean your tractor is NOT recommended. It may cause damage to electrical components, spindles, pulleys, bearings or the engine.



**WARNING!** Accumulation of debris around muffler could cause a fire. Inspect and clean before every use.

#### Muffler



**WARNING!** Temperature of muffler and nearby engine areas may exceed 150° F (65°C). Avoid contact with these areas.

Inspect muffler periodically, and replace if necessary. Replacement parts for the muffler must be the same and installed in the same position as the original parts.

#### **Battery**

The battery is sealed and is maintenance-free. Acid levels cannot be checked.

- Always keep the battery cables and terminals clean and free of corrosive build-up.
- After cleaning the battery and terminals, apply a light coat of petroleum jelly or grease to both terminals.
- Always keep the rubber boot positioned over the positive terminal to prevent shorting.

**IMPORTANT:** If removing the battery for any reason, disconnect the NEGATIVE (Black) wire from it's terminal first, followed by the POSITIVE (Red) wire. When re-installing the battery, always connect the POSITIVE (Red) wire its terminal first, followed by the NEGATIVE (Black) wire. Be certain that the wires are connected to the correct terminals; reversing them could change the polarity and result in damage to your engine's alternating system.

# **Cleaning Battery**

Clean the battery by removing it from the tractor and washing with a baking soda and water solution. If necessary, scrape the battery terminals with a wire brush to remove deposits. Coat terminals and exposed wiring with grease or petroleum jelly to prevent corrosion.

# **Cleaning the Tractor**

Any fuel or oil spilled on the machine should be wiped off promptly. Do NOT allow debris to accumulate around the cooling fins of the engine, the transmission's cooling fan or on any other part of the machine, especially the belts and pulleys.

# **Deck Wash System**

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

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

 Drive the tractor to a level, clear spot on your lawn, near enough for your garden hose to reach.



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

- 2. Disengage the PTO (Blade Engage), set the parking brake and stop the engine.
- 3. Thread the hose coupler (packaged with your tractor's Operator's Manual) onto the end of your garden hose.

4. Attach the hose coupler to the water port on your decks surface. See Figure 6-3.

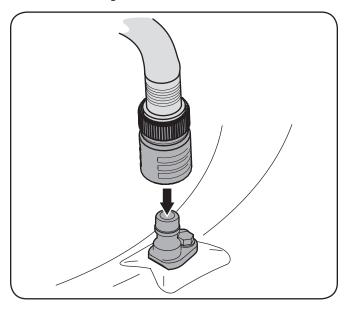


Figure 6-3

- 5. Turn the water on.
- While sitting in the operator's position on the tractor, start the engine and place the throttle lever in the FAST (rabbit) position.
- 7. Move the tractor's PTO (Blade Engage) into the ON position.
- 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. Move the tractor's PTO (Blade Engage) into the OFF position.
- Turn the ignition key to the STOP position to turn the tractor's engine off.
- 11. Turn the water off and detach the hose coupler from the water port on your deck's surface.

After cleaning your deck with the deck wash system, return to the operator's position and engage the PTO. Keep the cutting deck running for a minimum of two minutes, allowing the underside of the cutting deck to thoroughly dry.

# **Adjustments**



**WARNING:** Never attempt to make any adjustments while the engine is running, except where specified in the operator's manual.

# **Seat Adjustment**

Refer to the Set-Up and Assembly section of this manual for seat adjustment instructions.

#### **Parking Brake Adjustment**



**WARNING:** Never attempt to adjust the brakes while the engine is running. Always disengage PTO, move shift lever into neutral position, stop engine and remove key to prevent unintended starting.

If the tractor does not come to a complete stop when the brake pedal is completely depressed, or if the tractor's rear wheels can roll with the parking brake applied, the brake is in need of adjustment. See an authorized Cub Cadet Service Dealer to have your brakes properly adjusted.

# Leveling the Deck

**NOTE:** Check the tractor's tire pressure before performing any deck leveling adjustments. Refer to Tires, later in this section of this manual for more information regarding tire pressure.

## **Front To Rear**

It is possible to adjust the pitch of the cutting deck. The front of the deck should be between 0'' (level) and  $\frac{1}{4}''$  lower than the rear of the deck. Adjust if necessary as follows:

- With the tractor parked on a firm, level surface, place the lever for lifting the platform in the middle position and rotate the blade so that it is aligned with the front and rear of the tractor.
- 2. Measure the distance from the front of the blade tip to the ground and the rear of the blade tip to the ground. The first measurement taken should be between 0" (level) and 1/4" less than the second measurement. Determine the approximate distance necessary for proper adjustment and proceed, if necessary, to the next step.
- 3. Locate the flange lock nut on the front end of the PTO Lift Rod. See Figure 6-4.

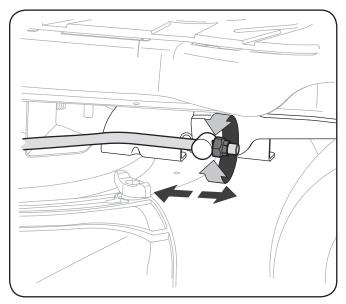


Figure 6-4

- Tighten the flange lock nut to raise the front of the deck;
- Loosen the flange lock nut to lower the front of the deck.

#### **Tires**



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

The recommended operating tire pressure is:

- Approximately 10 psi for the rear tires
- Approximately 14 psi for the front tires

**IMPORTANT:** 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.

# **Off Season Storage**



**WARNING!** Never store lawn tractor with fuel in tank indoors or in poorly ventilated areas where fuel fumes may reach an open flame, spark, or pilot light as on a furnace, water heater, clothes dryer, or gas appliance.

#### Preparing the Engine

**IMPORTANT:** Fuel left in the fuel tank during warm weather deteriorates and will cause serious starting problems.

To prevent gum deposits from forming inside the engine's carburetor and causing possible malfunction of the engine, the fuel system must be either completely emptied, or the gasoline must be treated with a stabilizer to prevent deterioration.

- If using a fuel stabilizer:
  - Read the product manufacturer's instructions and recommendations.
  - Add to clean, fresh gasoline the correct amount of stabilizer for the capacity of the fuel system.
  - Fill the fuel tank with treated fuel and run the engine for 2-3 minutes to get stabilized fuel into the carburetor.
- 2. If emptying the fuel system:
  - Do not drain fuel when the engine is hot. Allow the engine adequate time to cool. Drain fuel into an approved container outdoors, away from open flame.
  - Drain any large volume of fuel from the tank by disconnecting the fuel line from the in-line fuel filter near the engine. See the complete instructions for Draining The Fuel later in this section.



**WARNING!** Gasoline is extremely flammable and can be explosive under certain conditions. Drain gasoline before storing the equipment for extended periods. Drain fuel only into an approved container outdoors, away from an open flame. Allow engine to cool. Extinguish cigarettes, cigars, pipes, and other sources of ignition prior to draining fuel. Store gasoline in an approved container in safe location.

- Reconnect the fuel line and run the engine until it starts to falter, then use the choke to keep the engine running until all fuel in the carburetor has been exhausted.
- Disconnect the fuel line and drain any remaining gasoline from the system.



**WARNING!** Gasoline is a toxic substance. Dispose of gasoline properly. Contact your local authorities for approved disposal methods.

 Remove the spark plug and pour one (1) ounce of engine oil through the spark plug hole into the cylinder. Crank the engine several times to distribute the oil. Replace the spark plug.

#### Draining the fuel

- Locate the fuel filter, which is located on the left side of the engine, and may be attached to the engine with a tie strap.
- Cut the tie strap, if present, then pinch the in-line clamp on the fuel filter with a pair of pliers, slide the clamp up the fuel line.
- 3. Pull the fuel line free from the filter and place the open end of the line into an approved container to drain the fuel.

# Preparing the Lawn Tractor

- Clean and lubricate tractor thoroughly as described in the lubrication instructions.
- Do not use a pressure washer or garden hose to clean your unit.
- 3. Store mower in a dry, clean area. Do not store next to corrosive materials, such as fertilizer.

# **Maintenance Schedule**

	Before Each use	Every 10 Hours	Every 25 Hours	Every 50 Hours	Every 100 Hours	Prior to Storing
Check Engine Oil Level	$\checkmark$	$\checkmark$				
Check Air Filter for Dirty, Loose or Damaged Parts	<b>√</b>					
Clean and Re-oil Air Filter's Foam Pre-cleaner (if Equipped)			<b>√</b>			
Replace Air Filter Element					<b>√</b>	
Change Engine Oil and Replace Oil Filter (if Equipped)				<b>√</b>		
Clean Battery Terminals		$\checkmark$				$\checkmark$
Lube Front Axles and Rims			$\checkmark$			$\checkmark$
Clean Engine Cooling Fins			$\checkmark$			$\checkmark$
Check Spark Plug Condition & Gap					<b>√</b>	<b>√</b>
Replace Fuel Filter					<b>√</b>	

**IMPORTANT:** It is important to consult the specific engine operator's manual included with this machine for detailed engine maintenance procedures and intervals.

Service 7

# **Cutting Deck Removal**

To remove the cutting deck, proceed as follows:

- Place the PTO (Blade Engage) lever in the disengaged (OFF) position and engage the parking brake.
- 2. Lower the deck by moving the deck lift lever into the bottom notch on the right fender.
- Remove the bow-tie cotter pin and flat washer from the deck lift assembly, and retain for reinstallation later. See Figure 7-1.

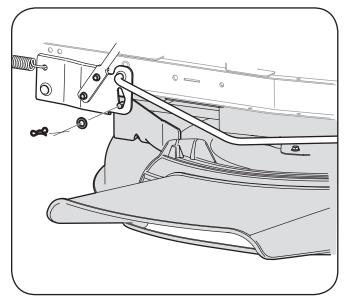


Figure 7-1

4. Remove the belt from around the tractor's PTO pulley. See Figure 7-2.

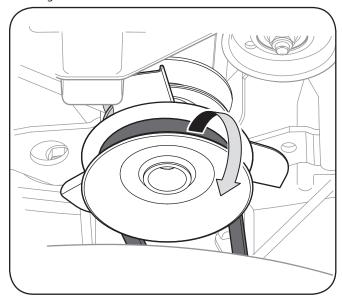


Figure 7-2

5. Remove the remaining bow-tie cotter pins securing the deck to the unit, as shown in Figure 7-3.

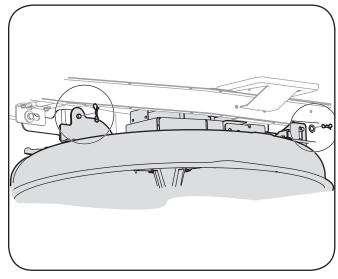


Figure 7-3

**NOTE:** The bow-tie clips should be re-installed from the top down.

- 6. Unplug the wire pigtail from the deck switch.
- 7. Move the deck lift lever into the top notch on the right fender to raise the deck lift arms up and out of the way.
- 8. Carefully remove the PTO cable from the rear of the cutting deck by removing the bow-tie cotter pin which secures it.
  Remove the spring from the deck idler bracket. See Figure 7-4.

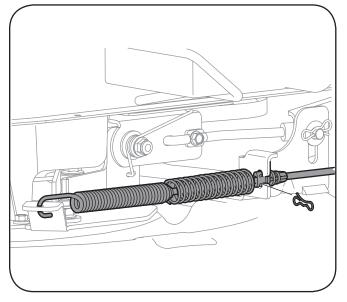


Figure 7-4

Gently slide the cutting deck (from the left side) out from underneath the tractor.

# **Changing the Deck Belt**

**NOTE:** It is possible to change the deck belt with the cutting deck still installed on the tractor, however it is much easier to remove the deck first, change the deck belt, then reinstall the cutting deck.

#### To change the cutting deck belt, proceed as follows:

- It is easiest to change the deck belt by first removing the cutting deck as instructed earlier in this section first. Skip this step if deciding to change the deck belt with the mowing deck still installed on the unit. Otherwise, remove the cutting deck now.
- If changing the deck belt with the cutting deck still
  installed on the unit, lower the deck to the lowest mowing
  position.
- Remove the deck belt from around the unit's PTO drive pulley as shown in Figure 7-2. Simply roll one side of the belt off of the pulley and then work it off the pulley by continuing around the pulley until the belt is off of the pulley.
- 4. Pull the belt towards the front of the unit, pulling it through and out of the belt keeper rod.
- 5. Remove the deck belt cover by removing the three hex bolts that secure it. See Figure 7-5.

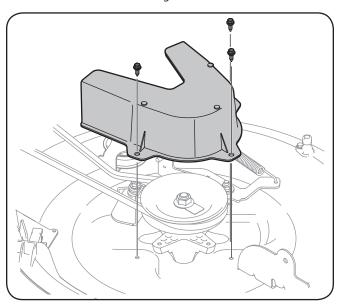


Figure 7-5

6. Remove the belt keeper by removing the hex bolt that secures it. See Figure 7-6.

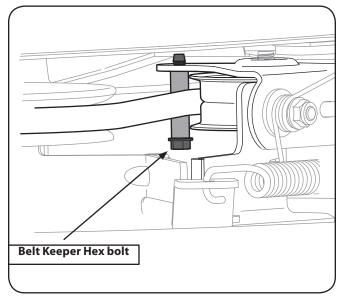


Figure 7-6

- Change the belt then reinstall the all the components removed in the reverse order beginning with the idler pulley, and then belt cover.
- 8. Feed the deck belt through the belt keeper rod and work it around and onto the PTO drive pulley as shown in Figure 7-2.

# **Battery**



# **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.



**CAUTION:** If removing the battery, disconnect the NEGATIVE (Black) wire from it's terminal first, followed by the POSITIVE (Red) wire. When reinstalling the battery, always connect the POSITIVE (Red) wire its terminal first, followed by the NEGATIVE (Black) wire.

#### **Battery Failures**

Some common causes for battery failure are:

- Incorrect initial activation
- Overcharging
- Freezing
- Undercharging
- Corroded connections

These failures are NOT covered by your tractor's warranty.

#### **Jump Starting**



**WARNING!** Never jump start a damaged or frozen battery. Be certain the vehicles do not touch, and ignitions are off. Do not allow cable clamps to touch.

- Connect positive (+) cable to positive post (+) of your tractor's discharged battery.
- 2. Connect the other end of the cable to the (positive +) post of the jumper battery.
- 3. Connect the second cable (negative –) to the other post of the jumper battery.
- Make the final connection on the engine block of the tractor, away from the battery. Attach to a unpainted part to assure a good connection.



**CAUTION:** If the jumper battery is installed on a vehicle (i.e. car, truck), do NOT start the vehicle's engine when jump starting your tractor.

- Start the tractor as instructed in the Operation section of this manual.
- Set the tractor's parking brake before removing the jumper cables, in reverse order of connection.

# Charging



**WARNING!** Batteries give off an explosive gas while charging. Charge the battery in a well ventilated area and keep away from an open flame or pilot light as on a water heater, space heater, furnace, clothes dryer or other gas appliances.



**CAUTION:** When charging your tractor's battery, use only a charger designed for 12V lead-acid batteries. Read your battery charger's Owner's Manual prior to charging your tractor's battery. Always follow its instructions and heed its warnings.

If your tractor has not been put into use for an extended period of time, charge the battery as follows:

1. Set your battery charger to deliver a max of 10 amperes.

If your battery charger is automatic, charge the battery until the charger indicates that charging is complete. If the charger is not automatic, charge for no fewer than eight hours.

## **Fuse**

One 15 AMP fuse is installed in your tractor's wiring harness located just above the battery, under the left fender, to protect the tractor's electrical system from damage caused by excessive amperage.

If the electrical system does not function, or your tractor's engine will not crank, first check to be certain that the fuse has not blown. It can be found at the rear of the unit, underneath the fender located by the battery.



**WARNING!** Always use a fuse with the same amperage capacity for replacement.

# **Cutting Blade**



**WARNING!** Shut the engine off and remove ignition key before removing the cutting blade(s) for sharpening or replacement. Protect your hands by using heavy gloves when grasping the blade.

**WARNING!** Periodically inspect the blade spindles for cracks or damage, especially if you strike a foreign object. Replace immediately if damaged.

# The blades may be removed as follows.

**NOTE:** It may be easier to change the blade by first removing the deck from beneath the tractor, (refer to Cutting Deck Removal earlier in this section) then gently flip the deck over to expose its underside. It is possible to change the blade, however, with the deck still attached to the tractor. If attempting to change the blade with the deck still installed on the tractor, first move the deck lift lever to its highest cutting position.

- Remove the mulch plug, deck chute or bagging chute, if equipped, exposing the deck chute opening.
- 2. Using a block of wood or 2 x 4, insert it into the deck opening and rotate the blade around until it wedges the wood between the deck opening and the cutting blade, as shown in Figure 7-7.

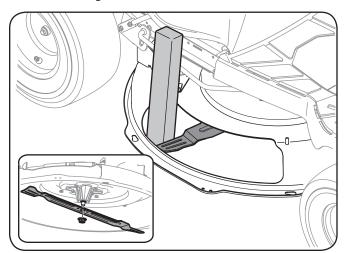


Figure 7-7

3. Remove the hex flange nut that secures the blade to the spindle assembly. See the Inset of Figure 7-7.

**NOTE:** The deck spindle has a normal thread. To loosen, rotate the flange lock nut counter clockwise.

4. To properly sharpen the cutting blades, remove equal amounts of metal from both ends of the blades along the cutting edges, parallel to the trailing edge, at a 25°- to 30° angle. Always grind each cutting blade edge equally to maintain proper blade balance. See Figure 7-8.

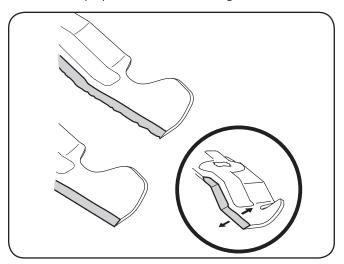


Figure 7-8



**WARNING!** If the cutting edge of the blade has previously been sharpened, or if any metal separation is present, replace the blades with new ones.



**WARNING!** A poorly balanced blade will cause excessive vibration, may cause damage to the tractor and/or result in personal injury.

Test the blade's balance using a blade balancer. Grind metal from the heavy side until it balances evenly.

**NOTE:** When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with a part number stamped in it) facing the ground when the mower is in the operating position.



**CAUTION!** Use a torque wrench to tighten the blade spindle hex flange nut to between 70 lbs-ft and 90 lbs-ft.

# **Changing the Transmission Drive Belt**

**NOTE:** Several components must be removed and special tools (i.e. air/impact wrench) in order to change the tractor's drive belt. See an authorized Cub Cadet Service Dealer to have your drive belt replaced or phone Customer Support to find a Cub Cadet Dealer near you. See page 2 for details.

Problem	Cause	Remedy
Engine fails to start	1. PTO/Blade engaged	Place blade engage lever in disengaged     (OFF) position.
	2. Spark plug wire disconnected	2. Connect wire to spark plug.
	3. Fuel tank empty, or stale fuel	Fill tank with clean, fresh (less than 30 days old) gas.
	4. Choke not activated	4. Place the throttle control in CHOKE position.
	5. Faulty spark plug	5. Clean, adjust gap or replace plug.
	6. Blown fuse	6. Replace fuse(s)
	7. Engine flooded	7. Crank engine with throttle in FAST position.
	8. Parking brake not engaged	8. Engage parking brake.
	Deck chute or mulch plug not poperly installed.	Check the installation of the deck chute or mulch plug.
Engine runs erratic	Unit running with CHOKE activated.	Move the throttle contol out of the CHOKE position.
	2. Spark plug wire loose.	2. Connect and tighten spark plug wire.
	3. Blocked fuel line or stale fuel.	<ol> <li>Clean fuel line; fill tank with clean, fresh gasoline and replace fuel filter</li> </ol>
	4. Vent in gas cap plugged.	4. Clear vent or replace cap if damaged.
	5. Water or dirt in fuel system.	<ol><li>Drain fuel tank. Refill with clean, fresh gasoline.</li></ol>
	6. Dirty air cleaner.	Replace air cleaner paper element and clean the foam pre-cleaner, if applicable.
Engine overheats	1. Engine oil level low.	Fill crankcase with proper amount and weight of oil.
	2. Air flow restricted.	Clean grass clippings and debris from around the engine's cooling fins and blower housing.
Engine hesitates at high RPM	1. Spark plug gap too close.	1. Remove spark plug and reset the gap.
Engine Idles rough	1. Spark plug fouled, faulty or gap too wide.	1. Replace spark plug. Set plug gap.
	2. Dirty air cleaner.	Replace air cleaner paper element and clean the foam pre-cleaner, if applicable.
Excessive vibration	Cutting blade loose or unbalanced.	1. Tighten blade and spindle. Balance blade.
	2. Damaged or bent cutting blade.	2. Replace blade.
Mower will not mulch grass	1. Engine speed too low.	Place throttle in FAST (rabbit) position.
	2. Wet grass.	2. Do not mulch when grass is wet.
	3. Excessively high grass.	Mow once at a high cutting height, then     mow again at desired height or make a     narrower cutting swath.
	4. Dull blade.	4. Sharpen or replace blade.
Uneven cut	Deck not leveled properly.	Perform the Leveling The Deck adjustment.
	2. Dull blade.	2. Sharpen or replace blade.
	3. Uneven tire pressure.	3. Check tire pressure in all four tires.

Component	Part N	Number and Description
	954-05001	Drive Belt (Mowing Deck)
	918-04822A	Deck Spindle
	942-04385	Cutting Blade (30")
	925-1707D	Battery
7	951-12179B	Fuel Tank Cap
	625-05000	Key Asm-Key W/Keychain
	734-0298	Tire (Front), 13.0 x 5.0-6.00
	734-04641	Tire (Rear) 16 x 6.5 x 8
	946-04829A	Throttle Control/Cable
	731-10267	Discharge Chute Assembly

**Note:** Call (800) 965-4CUB to order replacement parts or for a complete Parts Manual (have your full model number and serial number ready). Parts Manual downloads are also available free of charge at www.cubcadet.com.

# **Attachments & Accessories**

10

The following attachments and accessories are compatible for Cub Cadet CC-30 riding lawn mower. See your Cub Cadet dealer for information regarding price and availability of these attachments and accessories.



Caution: Cub Cadet CC-30 riding lawn mowers are NOT designed for use with any type of ground-engaging attachments (e.g. tiller or moldboard plow). Use of this type of equipment WILL void the tractor's warranty.

Model Number	Description
19A30014OEM	Twin Bagger Kit
490-850-0008	Oil Siphon
490-850-0005	Blade Removal Tool
19A30013OEM	Mulch Kit
490-290-0013	Tractor Cover
490-900-0045	Oil Filter Wrench
SPW-136	Spark Plug Wrench
490-325-L021	1 Gallon Tire &Tube Sealant By Tire Aid
490-325-L019	24 Oz Tire & Tube Sealant By Tire Aid
490-850-L013	Deluxe Tire/ Tube Foot Pump By Tire Aid
490-850-L014	Tire Aid Deluxe Tire Plug Kit By Tire Aid
22216	32 Oz <b>STA-BIL</b> <sup>®</sup>

# FEDERAL and/or CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

MTD Consumer Group Inc, the United States Environmental Protection Agency (EPA), and for those products certified for sale in the state of California, the California Air Resources Board (CARB) are pleased to explain the evaporative emission control system (ECS) warranty on your 2013-2014 small off-road equipment (outdoor equipment). In California, new outdoor equipment must be designed, built and equipped to meet the State's stringent anti-smog standards (in other states, outdoor equipment must be designed, built, and equipped to meet the U.S. EPA small off-road spark ignition engine regulations). MTD Consumer Group Inc must warrant the ECS on your outdoor equipment for the period of time listed below, provided there has been no abuse, neglect, or improper maintenance of the outdoor equipment.

Your ECS may include parts such as fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

Where a warrantable condition exists, MTD Consumer Group Inc will repair your outdoor equipment at no cost to you including diagnosis, parts, and labor.

#### MANUFACTURER'S WARRANTY COVERAGE:

This emission control system is warranted for two years. If any emission-related part on your outdoor equipment is defective, the part will be repaired or replaced by MTD Consumer Group Inc.

#### **OWNER'S WARRANTY RESPONSIBILITIES:**

As the outdoor equipment owner, you are responsible for performance of the required maintenance listed in your owner's manual. MTD Consumer Group Inc recommends that you retain all receipts covering maintenance on your outdoor equipment, but MTD Consumer Group Inc cannot deny warranty solely for the lack of receipts.

As the outdoor equipment owner, you should however be aware that MTD Consumer Group Inc may deny you warranty coverage if your outdoor equipment or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

You are responsible for presenting your outdoor equipment to MTD Consumer Group Inc's distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact the MTD Consumer Group Inc Service Department at 1-800-800-7310 or at http://support.mtdproducts.com.

#### **GENERAL EMISSIONS WARRANTY COVERAGE:**

MTD Consumer Group Inc warrants to the ultimate purchaser and each subsequent purchaser that the outdoor equipment is: (1) designed, built, and equipped so as to conform with all applicable regulations; and (2) free from defects in materials and workmanship that cause the failure of a warranted part for a period of two years.

The warranty period begins on the date the outdoor equipment is delivered to an ultimate purchaser or first placed into service.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

- 1. Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by MTD Consumer Group Inc according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
- 2. Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
- 3. Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by MTD Consumer Group Inc according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
- 4. Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.
- 5. Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.
- 6. The outdoor equipment owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.
- 7. MTD Consumer Group Inc is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.
- 8. Throughout the off-road engine and equipment warranty period stated above, MTD Consumer Group Inc will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
- 9. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of MTD Consumer Group Inc.
- 10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claim. MTD Consumer Group Inc will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

## **WARRANTED PARTS:**

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if MTD Consumer Group Inc demonstrates that the outdoor equipment has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. Further, the coverage under this warranty extends only to parts that were present on the off-road equipment purchased.

The following emission warranty parts are covered (if applicable):

- 1. Fuel Metering System
  - · Fuel pump
  - Fuel tank
- 2. Evaporative Control
  - · Fuel hose
  - · Fuel hose clamps
  - · Tethered fuel cap
  - · Carbon canister
  - Vapor lines

# CUB CADET LLC MANUFACTURER'S LIMITED WARRANTY FOR CC-30 RIDER

**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 product (excluding its *Normal Wear Parts*, *Batteries*, 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: belts, blades, blade adapters, grass bags, rider deck wheels, seats, and tires.

Batteries have a one-year prorated limited warranty against defects in material and workmanship, with 100% replacement during the first three months. After three months, the battery replacement credit is based on the months remaining in the twelve (12) month period dating back to the original date of original sale or lease. Any replacement battery will be warranted only for the remainder of the original warranty period.

Attachments — Cub Cadet warrants attachments for this product against defects in material and workmanship for a period of two (2) years, 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.
- c. 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.
- d. Replacement parts and/or accessories that are not genuine Cub Cadet parts.
- e. 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.