

# Operator's Manual

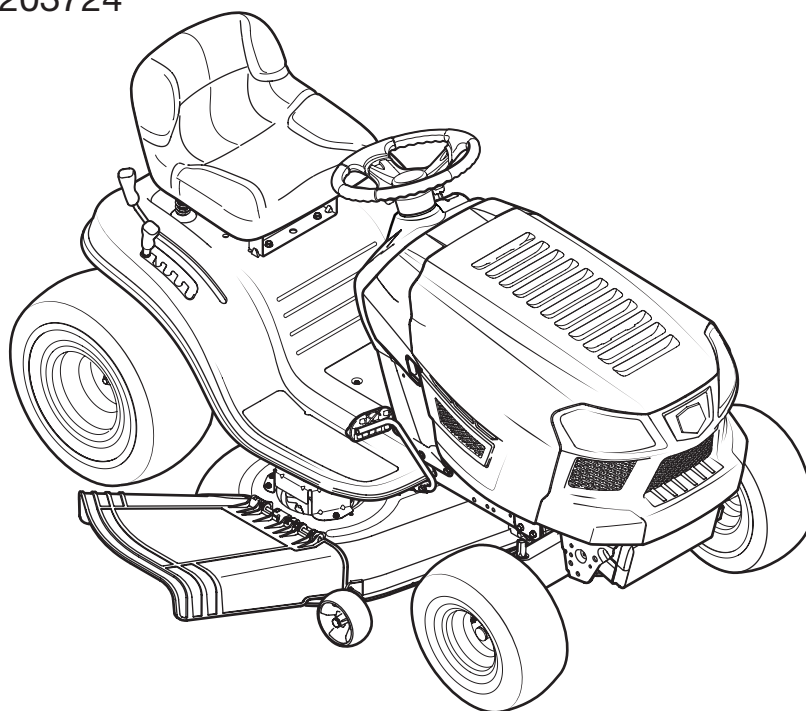
## CRAFTSMAN®

**T1200 LAWN TRACTOR**

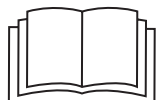
**420cc, Variation Speed**

**42" Deck**

Model No. 247.203724



- Espanol, P. 34



This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Operator's Manual.

### **⚠ CAUTION**

Before using this equipment, read this manual and follow all safety rules and operating instructions.

For answers to your questions about this product, call:

**1-888-331-4569**

Craftsman Customer Care Hot Line

Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A.

Visit our website: [www.craftsman.com](http://www.craftsman.com)

Form No. 769-09448D

(March 9, 2015)

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## WARRANTY STATEMENT

### CRAFTSMAN LIMITED WARRANTY

FOR TWO YEARS from the date of purchase, all non-expendable parts of this riding equipment are warranted against defects in material or workmanship. With proof of purchase, a defective non-expendable part will receive free repair or replacement at option of seller.

### BATTERY LIMITED WARRANTY

FOR 90 DAYS from the date of purchase, the battery (an expendable part) of this riding equipment is warranted against defects in material or workmanship. With proof of purchase, you will receive a new battery at no charge. You are responsible for the labor cost of battery installation.

### ADDITIONAL LIMITED WARRANTIES

In the following additional warranties, you are responsible for the labor cost of part installation after the second year from the date of purchase.

FOR FIVE YEARS from the date of purchase, the frame of this riding equipment is warranted against any defects in material or workmanship. With proof of purchase, you will receive a new frame at no charge.

FOR TEN YEARS from the date of purchase, the front axle of this riding equipment is warranted against any defects in material or workmanship. With proof of purchase, you will receive a new axle at no charge.

FOR AS LONG AS IT IS USED by the original owner after the tenth year from the date of purchase, the cast iron front axle (if equipped) of this riding equipment is warranted against any defects in material or workmanship. With proof of purchase, you will receive a new cast iron front axle at no charge.

### WARRANTY SERVICE

For warranty coverage details to obtain free repair or replacement, visit the web page: [www.craftsman.com/warranty](http://www.craftsman.com/warranty)

### Product Replacement

If part repair or replacement is impossible, you will receive a new riding equipment unit of the same or equivalent model.

### Warranty Restriction

All warranty coverage is void if this riding equipment is ever used while providing commercial services or if rented to another person.

**This warranty covers ONLY defects in material and workmanship. Warranty coverage does NOT include:**

- Expendable parts (except battery) that can wear out from normal use within the warranty period, including but not limited to blades, spark plugs, belts and air, oil or gas filters.
- Standard maintenance servicing, oil changes or tune-ups.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Tire or wheel replacement or repair resulting from normal wear, accident, or improper operation or maintenance.
- Repairs necessary because of operator abuse, including but not limited to damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame, axle assembly or crankshaft, or over-speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or failure to maintain the riding equipment according to the instructions contained in the operator's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within 30 days of its purchase date.
- Normal deterioration and wear of the exterior finishes, or product label replacement.

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

Sears Brands Management Corporation, Hoffman Estates, IL 60179

## PRODUCT SPECIFICATIONS

Engine Oil: SAE 30

Fuel: Unleaded Gasoline

## MODEL NUMBER

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Record the model number, serial number,  
and date of purchase above.

# SAFETY INSTRUCTIONS

## 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!

## WARNING

### CALIFORNIA PROPOSITION 65

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

## DANGER

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

## 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!**

## 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 old to operate this machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
- 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.
- 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.
- 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.
- Stop the blade(s) when crossing gravel drives, walks, or roads and while not cutting grass.
- 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.
- Mow only in daylight or good artificial light.
- 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), set parking brake, stop engine and remove key before dismounting.
- 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.
- Muffler and engine become hot and can cause a burn. Do not touch.

# SAFETY INSTRUCTIONS

- 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.
- Disengage all attachment clutches and depress the brake pedal completely before attempting to start engine.
- 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.
- 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. For a list of approved accessories and attachments, call 1-888-331-4569.
- 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.
- If situations occur which are not covered in this manual, use care and good judgment.

## 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 Guide included as part of this manual to measure slopes before operating this machine on a sloped or hilly area. If the slope is greater than 15 degrees as shown on the Slope Guide, 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.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- 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.
- 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.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use a grass catcher on steep slopes.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not attempt to 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 lose 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.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation.
- 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 machine.
- To avoid back-over accidents, always disengage the cutting blade(s) before shifting into Reverse. If equipped, the "Reverse Caution Mode" (blades operate while machine rides in reverse) should not be used when children or others are around.
- Keep children away from hot or running engines. They can suffer burns from a hot muffler.
- Remove key when machine is unattended to prevent unauthorized operation.

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.
- Follow the manufacturers recommendation for weight limits for towed equipment and towing on slopes.
- Never allow children or others in or on towed equipment.

# SAFETY INSTRUCTIONS

- 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.
- Travel slowly and allow extra distance to stop.
- Do not coast downhill.
- 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 a Sears or other qualified service dealer.
- Check brake operation frequently as it is subjected to wear during normal operation. Adjust and service as required.
- 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!

## 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.

- 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.
- 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.
- 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.
- Never fuel machine indoors.
- Never remove gas cap or add fuel while the engine is hot or running. Allow engine to cool at least two minutes before refueling.
- Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to allow space for fuel expansion.
- 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.
- 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.
- Allow a machine to cool at least five minutes before storing.
- 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.
- 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.
- 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!
- 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.
- Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
- 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, buy a new machine or have the machine inspected annually by a Sears or other qualified 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.

### General Service

- Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless, and deadly gas.
- 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.

# SAFETY INSTRUCTIONS

## 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.

## 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 Sears Parts and Repair Service Center.

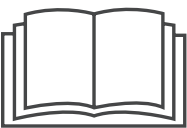







**WARNING:** Your Responsibility—Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

### 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 Mowing in reverse is not recommended.
	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.



# SAFETY INSTRUCTIONS

Symbol	Description
	<b>DANGER — SAFETY DEVICES</b> Keep safety devices (guards, shields, switches, etc.) in place and working.
	<b>BYSTANDERS</b> Keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation.
	<b>WARNING— SLOPE OPERATION</b> Do not operate this machine on a slope greater than 15 degrees. Do not mow across slopes. Mow up and down slopes no greater than 15 degrees. Avoid sudden turns. Use low speed. If machine stops going uphill, stop blades and back down slowly.
	<b>WARNING— HOT SURFACE</b> Engine parts, especially the muffler, become extremely hot during operation. Allow engine and muffler to cool before touching.
	<b>DANGER — ROTATING BLADES</b> 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.
	<b>WARNING — FIRE HAZARD</b> Allow machine to cool before fueling or storing.
	<b>WARNING — FIRE HAZARD</b> Do not drive through piles of dry leaves or tall grass. Keep machine free of debris.
	<b>WARNING — FIRE HAZARD</b> Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements. Do not allow debris to accumulate. The build up of debris can lead to a fire.

# SLOPE GAUGE

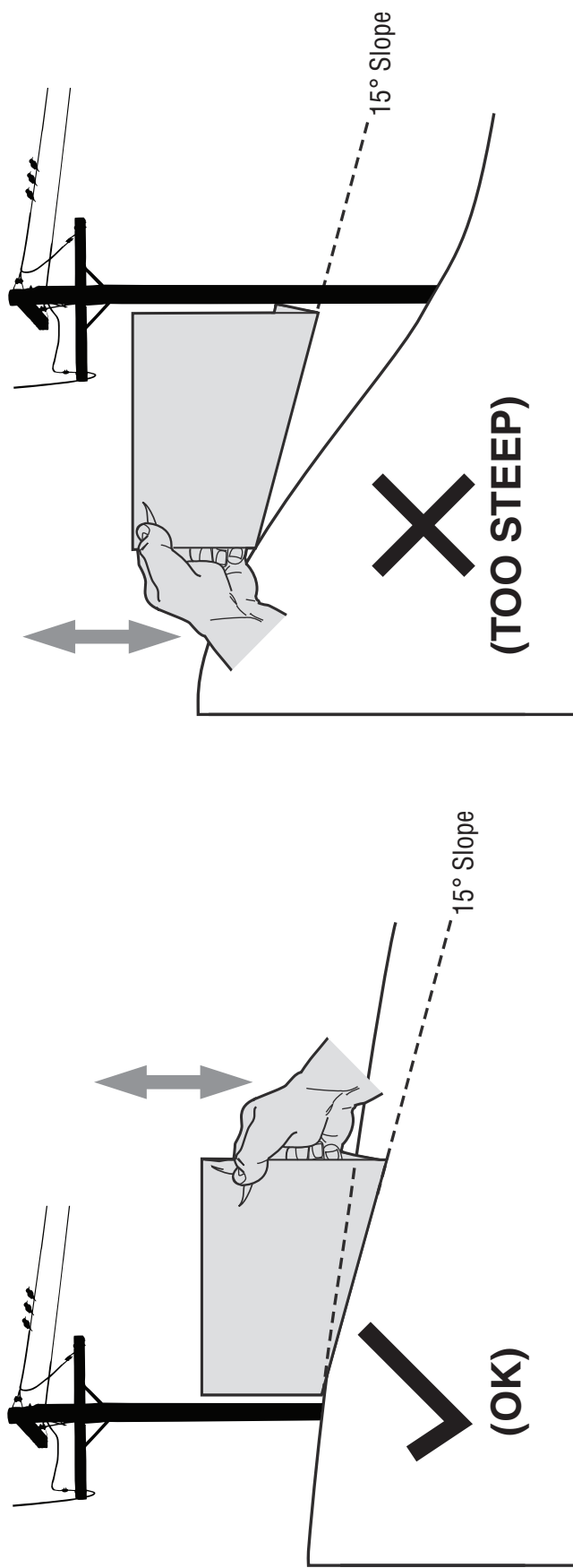


Figure 1

Figure 2

**USE THIS SLOPE GAUGE TO DETERMINE  
IF A SLOPE IS TOO STEEP FOR SAFE OPERATION!**

To check the slope, proceed as follows:

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

## ⚠ WARNING

Slopes are a major factor related to tip-over and roll-over accidents which can result in severe injury or death. Do not operate machine on slopes in excess of 15 degrees. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it. Always mow up and down the face of slopes, never mow across the face of slopes.



# ASSEMBLY

**IMPORTANT:** Your tractor is shipped with motor oil in the engine. However, you **MUST** check the oil level before operating. Refer to the Service & Maintenance section for instructions on checking the oil level.

## Attaching the Battery Cables

### ⚠ WARNING

#### California Proposition 65

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 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. (-).

1. Remove the plastic cover, if present, from the positive battery terminal and attach the red cable to the positive battery terminal (+) with the bolt and hex nut. See Figure 1.
2. Remove the plastic cover, if present, from the negative battery terminal and attach the black cable to the negative battery terminal (-) with the bolt and hex nut. See Figure 1.

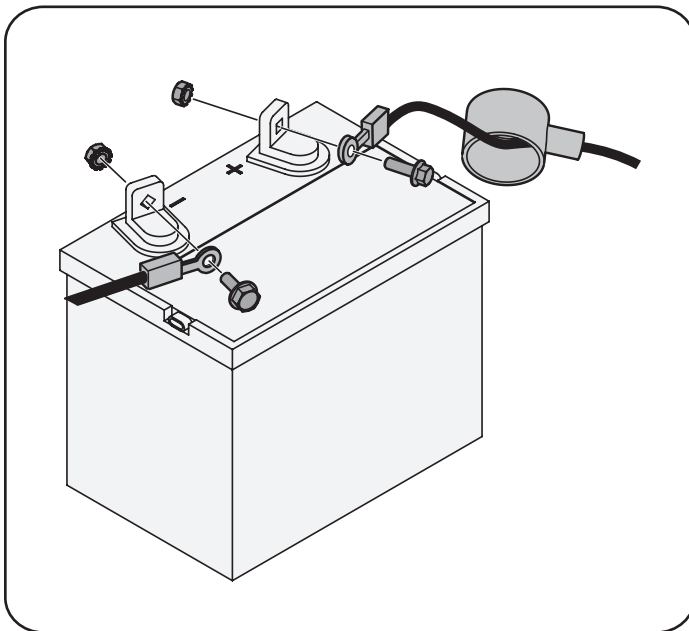


Figure 1

3. 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 of battery, charge the battery as instructed in the Service & Maintenance section of this manual prior to operating the tractor.

## Shipping Brace Removal

### ⚠ WARNING

Make sure the riding mower's engine is off, remove the ignition key, and set the parking brake before removing the shipping brace. Refer to the Operation section for instructions on how to set the parking brake.

1. Check the mower deck for a shipping brace that may be holding the chute deflector upward for shipment. If the brace is present, it must be removed before operating the tractor. Holding the chute deflector fully upward, remove the shipping brace. Lower the chute deflector and discard the shipping brace. See Figure 2.

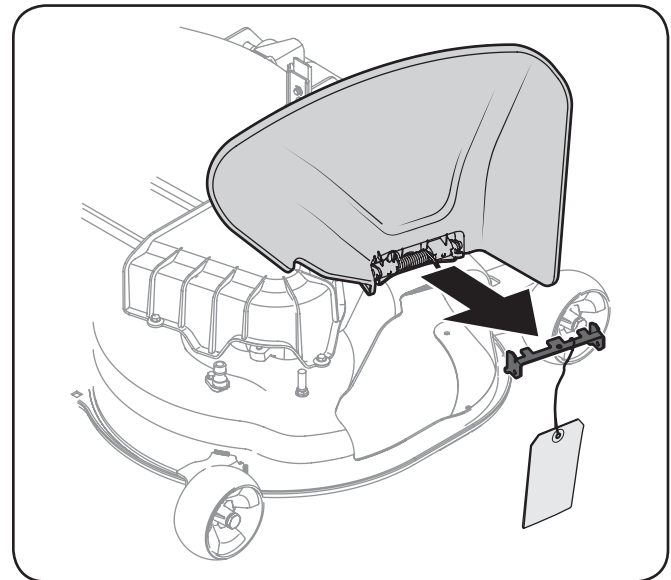


Figure 2

### ⚠ WARNING

The shipping brace, used for packaging purposes only, must be removed and discarded before operating your riding mower.

### ⚠ WARNING

The mowing deck is capable of throwing objects. Failure to operate the riding mower without the discharge cover in the proper operating position could result in serious personal injury and/or property damage.

## Attaching The Steering Wheel

If the steering wheel for your tractor did not come attached, the hardware for attaching it has been packed within the steering wheel, beneath the steering wheel cap. Carefully pry off the steering wheel cap and remove the hardware.

1. With the wheels of the tractor pointing straight forward, place the steering wheel over the steering shaft.
2. Place the washer (with the cupped side down) over the steering wheel and secure with the hex bolt. See Figure 3.
3. Place the steering wheel cap over the center of the steering wheel and push downward until it "clicks" into place.

# ASSEMBLY

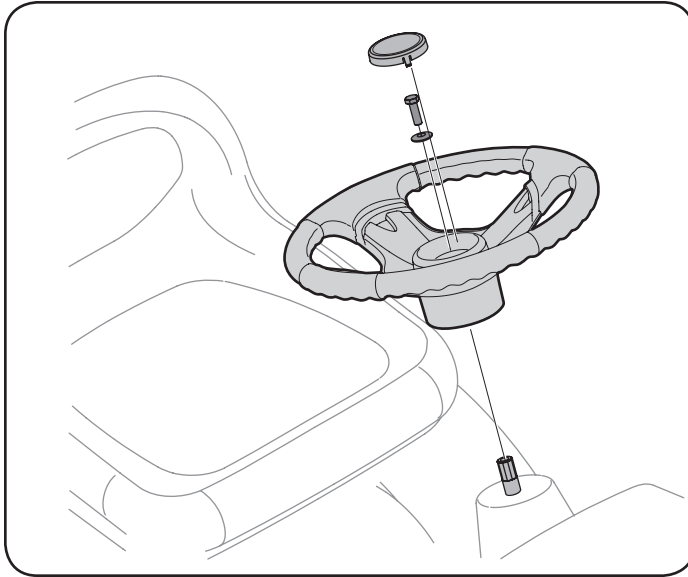


Figure 3

## Attaching The Seat

**NOTE:** For shipping reasons, the seat is either fastened to the tractor seat's pivot bracket with a plastic tie, or mounted backward to the pivot bracket. In either case, free the seat from its shipping position being careful not to bend or kink the wiring harness and follow the instructions below to attach it.

1. Remove the two hex screws and nuts from the seat pivot bracket.
2. Align the front holes of the seat mounting bracket with the holes in the seat pivot bracket on your tractor and secure with previously removed hex screws and nuts. See A in Figure 4.
3. Plug the wiring harness into the seat safety switch in the bottom of the seat, as shown in B of Figure 4.

**NOTE:** The tractor will not operate with the wiring harness disconnected.

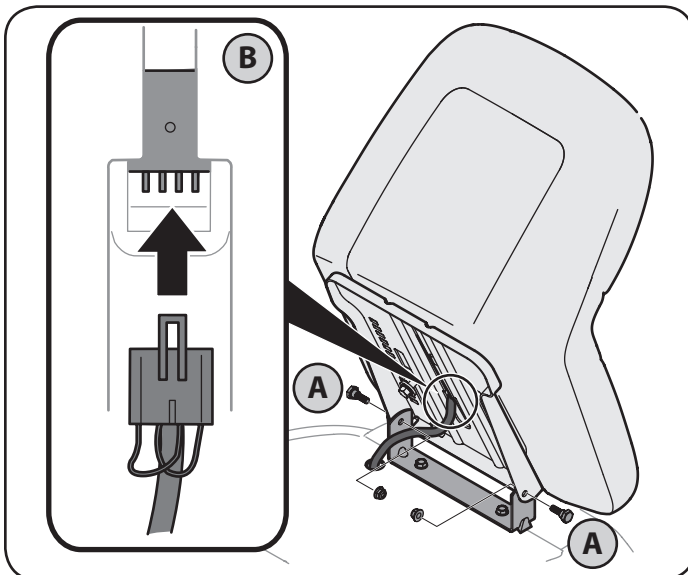


Figure 4

## Adjusting the Seat

To adjust the position of the seat, pull up and hold the seat adjustment lever. Slide the seat forward or rearward to the desired position; then release the adjustment lever. Make sure seat is locked into position in a seat-stop before operating the tractor. See Figure 5.

### ⚠ WARNING

Before operating the tractor, make sure the seat is engaged in a seat-stop. Engage the parking brake. Stand behind the machine and pull back on seat until it clicks into place.

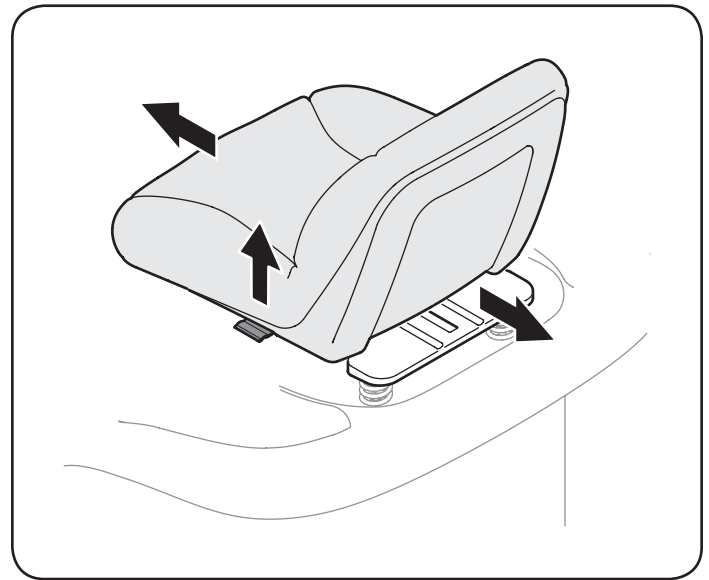


Figure 5

## Tire Pressure

### ⚠ WARNING

Maximum tire pressure under any circumstances is 30 psi. 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.

## OPERATION

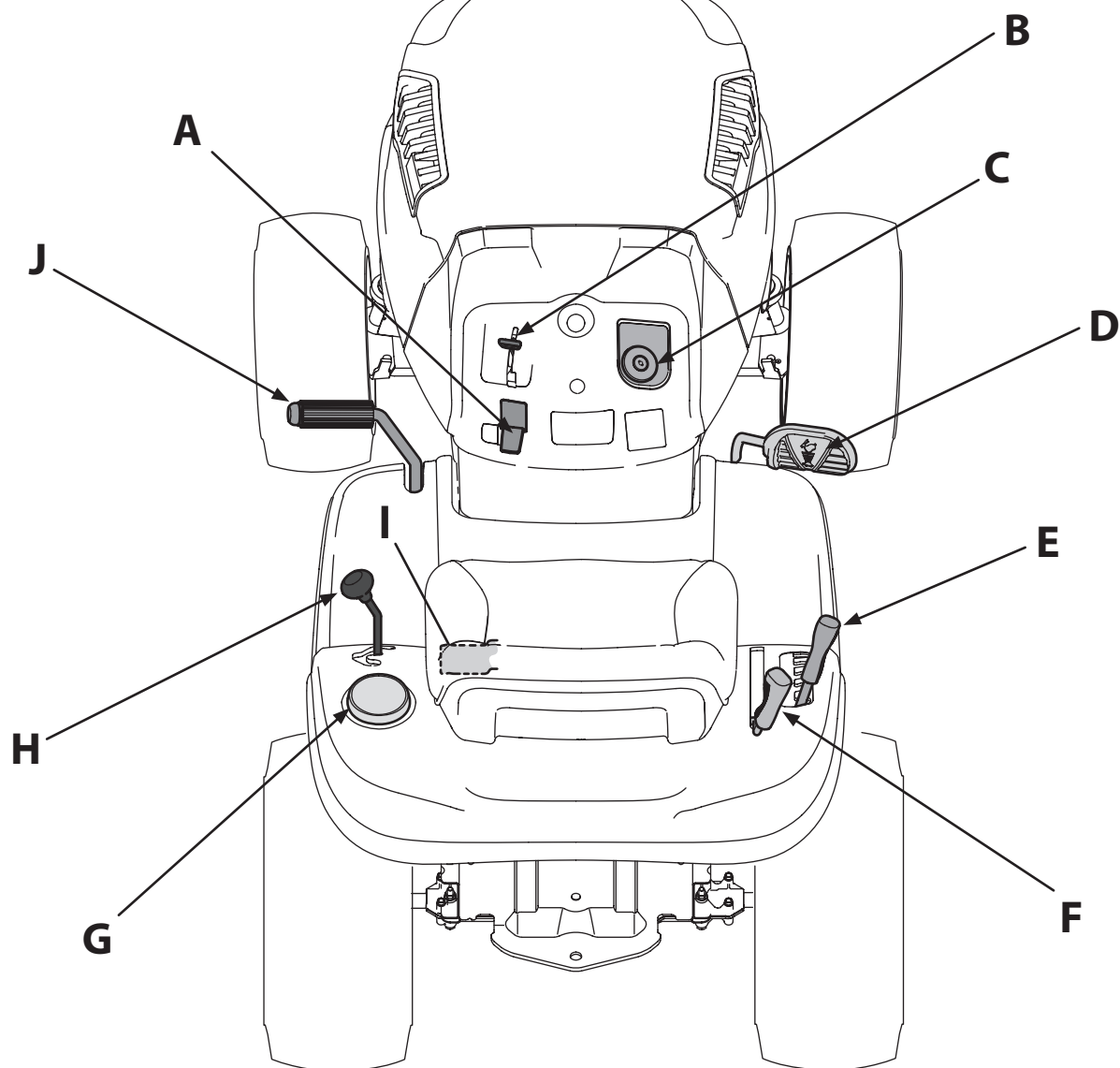


Figure 6

A	Parking Brake Lever
B	Throttle/Choke Control Lever
C	Ignition Switch Module
D	Auto-drive Pedal
E	Deck Lift Lever

F	PTO Lever (Blade Engage)
G	Cup Holder
H	Shift Lever
I	Seat Adjustment Lever
J	Brake Pedal

**NOTE:** Any reference in this manual to the RIGHT or LEFT side of the tractor is observed from operator's seat position facing forward towards the front of tractor.

### Meets ANSI Safety Standards

Craftsman Tractors conform to the safety standard of the American National Standards Institute (ANSI).

# OPERATION

## Parking Brake Lever

To set the parking brake: Fully depress the brake pedal. Move the parking brake lever into the parking brake position. Release the brake pedal to allow the parking brake to engage.

To release the parking brake: Depress the brake pedal and move the parking brake lever out of the ON position and into the OFF position. The parking brake will then be released. Release the 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.

## Throttle/choke Control Lever



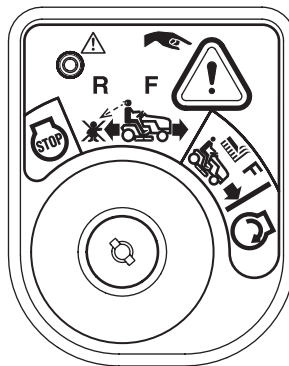
The throttle/choke control lever is located on the left side of the tractor's dash panel. This lever controls the speed of the engine and when pushed all the way forward, the choke control also. When set in a given position, the throttle will maintain a uniform engine speed.

**IMPORTANT:** When operating the tractor with the cutting deck engaged, the throttle/choke control lever must always be in the FAST (rabbit) position.

## Ignition Switch Module

To start the engine, insert the key into the ignition switch 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.



**IMPORTANT:** Prior to operating the tractor, refer to both the "Safety Interlock System" and "Starting The Engine" later in this section of this manual for detailed instructions regarding the Ignition Switch Module.

## WARNING

Never leave a running machine unattended. Always disengage PTO (Blade Engage Lever), move shift lever into neutral position, set parking brake, stop engine and remove key to prevent unintended starting.



## Seat Adjustment Lever

The seat adjustment lever is located below the front/left of the seat. The lever allows for adjustment of the fore and aft position of the seat. Refer to the Assembly section of the manual for more detailed instructions for adjusting the seat position.

## Auto-drive pedal

The drive pedal is located on the right side of the tractor, along the running board. Depress the drive pedal forward and the tractor will move in the direction that the shift lever is engaged in. To cause the tractor to travel forward, while at a complete stop, move the shift lever into the Forward position. Gradually step on the drive pedal and the tractor will begin to move forward. To move in Reverse, follow the same procedure only move the shift lever into the reverse position.

The ground speed is controlled with the drive pedal. The further forward that the pedal is pivoted, the faster the tractor will travel. The pedal will return to its original position when it's not depressed. Refer to the Operation section of this manual for detailed instructions regarding the drive pedal.

**IMPORTANT:** Always set the parking brake when leaving the tractor unattended.

## 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 or other (separately available) attachments. 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/ attachment.

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

## Cup Holder

The tractor's cup holder is located on the fender to the left of the seat.

## Shift Lever

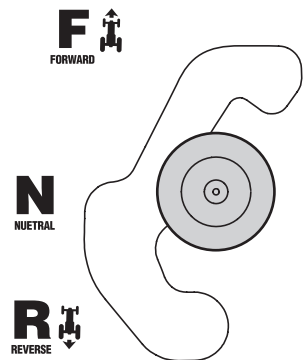
The shift lever is located on the left side of the fender and has three positions, FORWARD, NEUTRAL and REVERSE. The brake pedal must be depressed and the tractor must not be in motion when the moving shift lever.

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

## Brake Pedal

The brake pedal is located on the left side of the lawn tractor, along the running board. Depress the brake pedal to engage the disc brake and bring the tractor to a complete stop.

**NOTE:** The pedal must be depressed to start the engine. Refer to Safety Interlock Switches later in this section of this manual.



# OPERATION

## Gas and Oil Fill-up Oil

**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.

For instructions on how to check the engine oil, refer to Checking The Engine Oil in the Service and Maintenance section of this manual.

## Gasoline

The gasoline tank is located under the hood. 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.

**NOTE:** Purchase gasoline in small quantities. Do not use gasoline left over from the previous season, to minimize gum deposits in the fuel system.

- This engine is certified to operate on unleaded gasoline. For best results, fill the fuel tank with only clean, fresh, unleaded gasoline with a pump sticker octane rating of 87 or higher.
- Gasohol (up to 10% ethyl alcohol, 90% unleaded gasoline by volume) is an approved fuel. Other gasoline/alcohol blends, such as E85, are not approved.
- Methyl Tertiary Butyl Ether (MTBE) and unleaded gasoline blends (up to a maximum of 15% MTBE by volume) are approved fuels. Other gasoline/ether blends are not approved.
- Fill fuel tank outdoors or in well-ventilated area.
- Do not overfill fuel tank. Fill tank to no more than 1/2 inch below bottom of filler neck to allow space for fuel expansion.
- Never remove gas cap or add fuel while the engine is hot or running. Allow engine to cool at least two minutes before refueling.
- If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.

## To Add Gasoline

1. Turn the engine off and let engine cool at least 2 minutes before removing the fuel cap. The gasoline tank is located under the hood. Remove the fuel cap by turning it counterclockwise.
2. Fill the fuel tank with gasoline. Use only clean, fresh (no more than 30 days old), unleaded gasoline. Fill tank to no more than 1/2 inch below bottom of filler neck to allow space for fuel expansion.
3. Reinstall the fuel cap.

**IMPORTANT:** Do not overfill the tank. Fill tank to no more than 1/2 inch below bottom of filler neck to allow space for fuel expansion. See Figure 7.

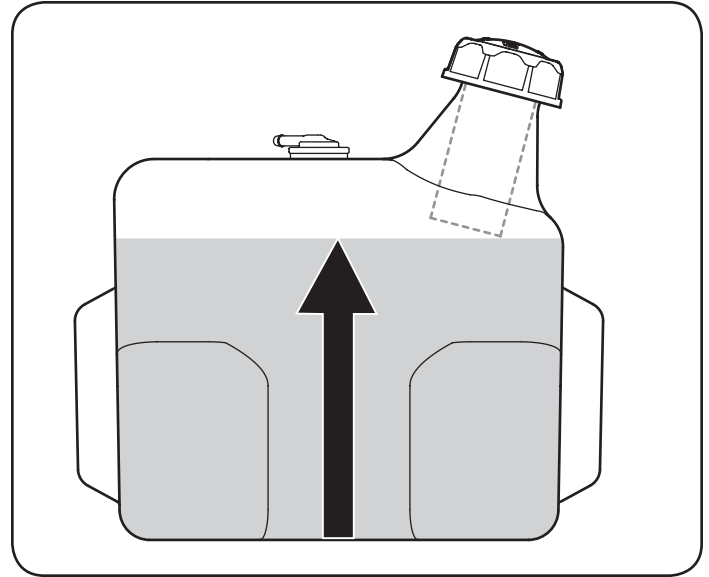


Figure 7

### **⚠ WARNING**

#### **Avoid Serious Injury or Death**

- Go up and down slopes, not across.
- Avoid sudden turns.
- Do not operate the unit where it could slip or tip.
- If machine stops going uphill, stop blades and back downhill slowly.
- Do not mow when children or others are around.
- Never carry children, even with blades off.
- Look down and behind before and while backing.
- Keep safety devices (guards, shields, and switches) in place and working.
- Remove objects that could be thrown by the blades.
- Know location and function of all controls.
- Be sure blades and engine are stopped before placing hands or feet near blades.
- Before leaving operator's position, stop tractor, disengage blades, engage parking brake, shut engine off, and remove key.

#### **Read Operator's Manual**

## Safety Interlock System

The safety interlock system is designed for safe operation of the tractor. If this system should ever malfunction, do not operate the tractor, Immediately contact 1-888-331-4569 to have the system serviced.

- The safety interlock system prevents the engine from starting unless the parking brake is engaged and the PTO (Blade Engage) lever is in the disengaged (OFF) position.
- The safety interlock system will automatically shut off the engine if the operator leaves the seat before engaging the parking brake.
- The safety interlock system will automatically shut off the engine if the operator leaves the tractor's seat with the PTO (Blade Engage) lever engaged, regardless of whether the parking brake is engaged.

# OPERATION

- 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 drive pedal in position for reverse travel.

## ⚠ 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 brake pedal and hold it down with your foot.
- Move the speed control lever all the way down and into the parking brake position.
- Release the brake pedal to allow the parking brake to engage.

### To release the parking brake:

- Depress the brake pedal and move the speed control lever out of the parking brake position and into a desired speed.

## 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.
- Adjust the deck wheels so that they are between ¼-inch and ½-inch above the ground when the tractor is on a smooth, flat surface such as a driveway.

### To adjust Deck Wheels:

- Remove the flange lock nut on the shoulder bolt securing the deck wheel.
- Position the wheel to the desired height as listed above. See Figure 8.

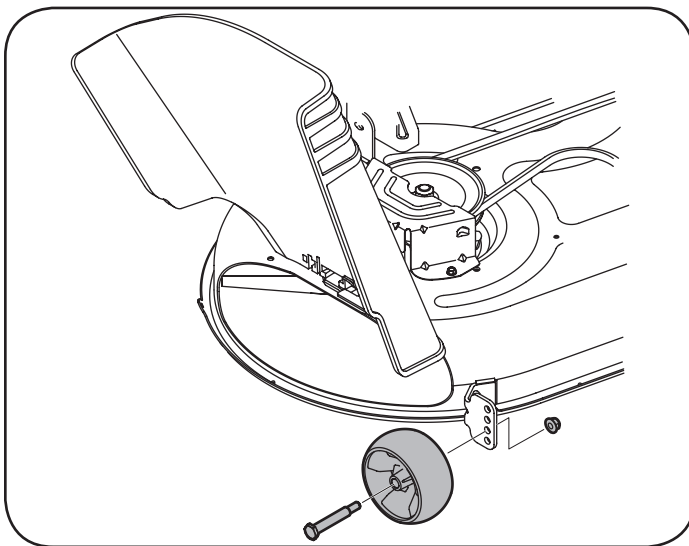


Figure 8

- Secure the shoulder bolt with the flange lock nut.

## ⚠ WARNING

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

**NOTE:** The deck wheels are an anti-scalp feature of the deck and are not designed to support the weight of the cutting deck. Refer to Leveling in the Maintenance and Service section of this manual for more detailed instructions regarding various deck adjustments.

## 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 Gasoline and Oil fill-up instructions earlier in this section.

- Insert the tractor key into the ignition switch.
- Place the PTO (Blade Engage) lever in the disengaged (OFF) position.
- Engage the tractor's parking brake.
- Activate the choke control by moving the throttle/choke lever all the way up 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 ON (or 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 and place the throttle control in the FAST position.

**NOTE:** Do NOT leave the choke control on while operating the tractor. Doing so will result in a "rich" fuel mixture and cause the engine to run poorly.

## Stopping the Engine

## ⚠ WARNING

If you strike 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 restarting and operating

- If the blades are engaged, place the PTO (Blade Engage) lever in the disengaged (OFF) position.
- Turn the ignition key counterclockwise to the STOP position.
- 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 brake pedal and engaging the parking brake. If leaving the tractor unattended, also turn the ignition key off and remove the key.



# OPERATION

## ⚠ WARNING

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

1. Depress the brake pedal to release the parking brake and then let the pedal up.
2. Move the throttle lever into the FAST (rabbit) position.
3. Place the shift lever in either the FORWARD or REVERSE position.

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

4. Gradually begin to apply pressure to the drive pedal. The further down the pedal is pushed, the faster the tractor will travel in the desired direction based on the position of the shift lever.
5. The lawn tractor is brought to a stop by releasing the drive pedal and then depressing the brake pedal.

## ⚠ WARNING

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

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

1. Place the shift lever in neutral,
2. Engage the parking brake,
3. Shut 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.

## Reverse Caution Mode

The REVERSE CAUTION MODE position of the key switch module allows the tractor to maneuver in reverse with the blades (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.

1. Start the engine as previously instructed on the previous page.
2. Turn the key from the NORMAL MOWING (Green) position to the REVERSE CAUTION MODE (Yellow) position of the key switch module. See Figure 9.
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 Figure 9.

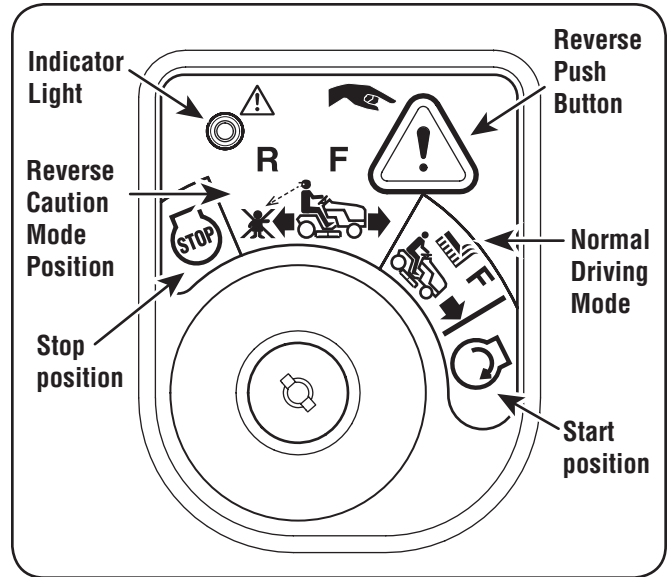


Figure 9

4. Once activated (indicator light ON), the tractor can be driven in reverse with the cutting blades (PTO) engaged.
5. 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:

- a. 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 Safety Instructions section of the manual to help determine slopes where you may operate this tractor safely.

## ⚠ WARNING

Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet 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.



# OPERATION

## Engaging the Blades

Engaging the PTO (Blade Engage) transfers power to the cutting deck or other (separately available) attachments. To engage the blades, proceed as follows:

1. Move the throttle/choke 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.
3. Keep the throttle lever in the FAST (rabbit) position for the most efficient use of the cutting deck or other (separately available) attachments.

**NOTE:** The engine will automatically shut off if the PTO is engaged with the shift lever in position for reverse travel with the ignition key in the ON position.

## Mulching

A mulch kit is available as an attachment. 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.

A mulch kit can be purchased through the retail location in which you purchased this tractor. For more information, simply contact Sears at 1-888-331-4569.

## 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 blades sharp and replace the blades when worn. Refer to Cutting Blades in the Service section of this manual for proper blade sharpening instructions.

## Headlights

- The lamps are ON whenever the tractor's engine is running.
- The lamps turn OFF when the ignition key is moved to the STOP position.

# SERVICE AND MAINTENANCE

## MAINTENANCE SCHEDULE

### WARNING

Before performing any type of maintenance/service, disengage all controls and stop the engine. Wait until all moving parts have come to a complete stop. Disconnect spark plug wire and ground it against the engine to prevent unintended starting. Always wear safety glasses during operation or while performing any adjustments or repairs.

Follow the maintenance schedule given below. This chart describes service guidelines only. Use the Service Log column to keep track of completed maintenance tasks. **To locate the nearest Parts & Repair Service Center or to schedule service, simply contact 1-888-331-4569.**

Interval	Item	Service	Service Log
Before Each Use	<ol style="list-style-type: none"> <li>1. Engine oil level</li> <li>2. Muffler area and controls</li> <li>3. Finger guard</li> </ol>	<ol style="list-style-type: none"> <li>1. Check</li> <li>2. Clean</li> <li>3. Clean</li> </ol>	
In the First Five Hours	<ol style="list-style-type: none"> <li>1. Engine Oil</li> </ol>	<ol style="list-style-type: none"> <li>1. Change</li> </ol>	
Every 10 Hours	<ol style="list-style-type: none"> <li>1. Hood/ Dash air vents</li> <li>2. Battery terminals</li> <li>3. Deck spindles and idler bracket</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean</li> <li>2. Clean</li> <li>3. Lubricate</li> </ol>	
Every 25 hours	<ol style="list-style-type: none"> <li>1. Air filter's precleaner*</li> <li>2. Air filter*</li> <li>3. Mid steering arms, pivot shafts, and axles</li> <li>4. Front wheel bearings</li> <li>5. Front deck wheels</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean</li> <li>2. Clean</li> <li>3. Lubricate</li> <li>4. Lubricate</li> <li>5. Lubricate</li> </ol>	
Every 50 hours	<ol style="list-style-type: none"> <li>1. Engine oil/ Oil filter</li> <li>2. Muffler</li> </ol>	<ol style="list-style-type: none"> <li>1. Change/ Replace</li> <li>2. Check</li> </ol>	
Annually	<ol style="list-style-type: none"> <li>1. Air filter</li> <li>2. Air filter's pre-cleaner</li> <li>3. Spark plug</li> <li>4. Air cooling system*</li> <li>5. Fuel filter</li> <li>6. Steering Gears</li> <li>7. Rear Wheels</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace</li> <li>2. Replace</li> <li>3. Replace</li> <li>4. Clean</li> <li>5. Replace</li> <li>6. Clean</li> <li>7. Remove and grease axles</li> </ol>	
Before Storage	<ol style="list-style-type: none"> <li>1. Hood/ Dash air vents</li> <li>2. Battery terminals</li> <li>3. Mid steering arms, pivot shafts, and axles</li> <li>4. Front wheel bearings</li> <li>5. Front deck wheels</li> <li>6. Deck spindles and idler bracket</li> <li>7. Pedal pivot points</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean</li> <li>2. Clean</li> <li>3. Lubricate</li> <li>4. Lubricate</li> <li>5. Lubricate</li> <li>6. Lubricate</li> <li>7. Lubricate</li> </ol>	

\*Service more frequently under dusty conditions. Engine Maintenance

### WARNING

Before performing any maintenance or repairs, disengage the PTO (Blade Engage Lever), engage the parking brake, stop the engine and remove the key to prevent unintended starting.

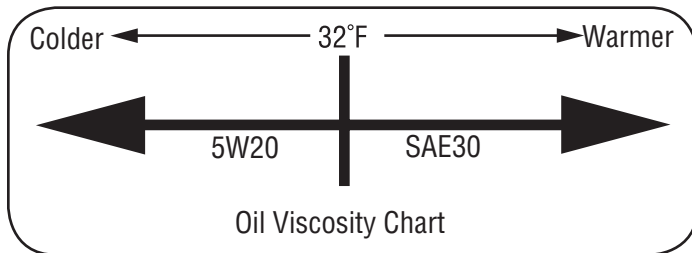
### WARNING

If the engine has been recently run, the engine, muffler and surrounding metal surfaces will be hot and can cause burns to the skin. Exercise caution to avoid burns.

# SERVICE AND MAINTENANCE

## Checking the Engine Oil

Use a 4-stroke, or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for service classification of a minimum level SJ (higher letter ratings are acceptable such as SL and SM grades). Motor oil will display this designation on the container. SAE 10W-30 is recommended for general, all temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area from the chart below.



To check the engine oil, proceed as follows:

- Ensure that the tractor is on a level surface.
  - Clean the oil fill area of any debris.
1. Remove the dipstick, see Figure 10, and wipe with a clean cloth.
  2. Reinsert dipstick and press completely down.
  3. Remove the dipstick and check the oil level. It should be at the Full mark on the dipstick.

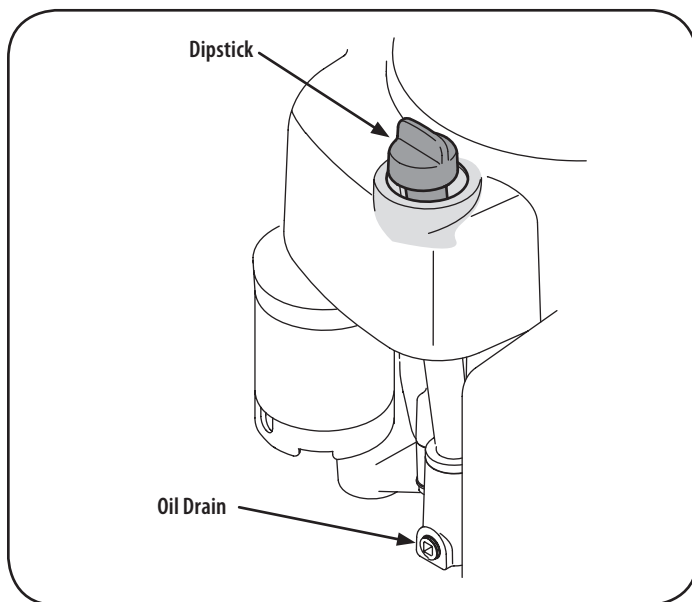


Figure 10

4. If low, add oil slowly into the engine oil fill. Do not overfill. After adding oil, wait one minute and then recheck the oil level.

## ⚠ CAUTION

**Do not overfill. Overfilling with oil may cause the engine to not start, hard starting, or engine smoking. If over the FULL mark on the dipstick, drain oil to reduce oil level to FULL mark on dipstick.**

5. Replace dipstick, and tighten.

## Changing the Engine Oil and Filter

### ⚠ WARNING

**If the engine has been recently run, the engine, muffler and surrounding metal surfaces will be hot and can cause burns to the skin. Exercise caution to avoid burns.**

**NOTE:** The oil filter should be changed at every oil change interval.

The engine oil should be changed in the first 5 hours and then every 50 hours or once a season. To change the engine oil, proceed as follows:

1. 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. Open the tractor's hood and locate the oil drain port on the right side of the engine. See Figure 11.
3. Disconnect spark plug wire and keep it away from spark plug.
4. Remove the oil fill cap/dipstick from the oil fill tube. See Figure 10.
5. Turn the steering wheel all the way to the right to better expose the drain plug.
6. Snap the small end of oil drain sleeve onto the space provide around the oil drain plug. See Figure 11.

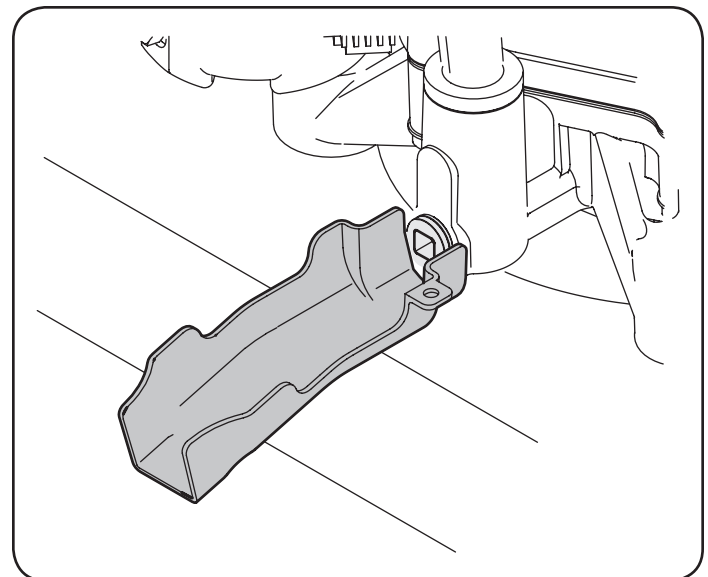


Figure 11

7. Remove oil drain plug and drain the oil.
8. Remove the oil drain sleeve and store in a safe location for later use.
9. Replace the oil drain plug.
10. Remove the oil filter, see Figure 12, and dispose of it properly.
11. Partially fill the new oil filter approximately 3/4 of the way full with clean, fresh oil. Before you install the new oil filter, lightly lubricate the oil filter gasket with some of the oil by simply dipping your finger in the oil and running it around the gasket.

## SERVICE AND MAINTENANCE

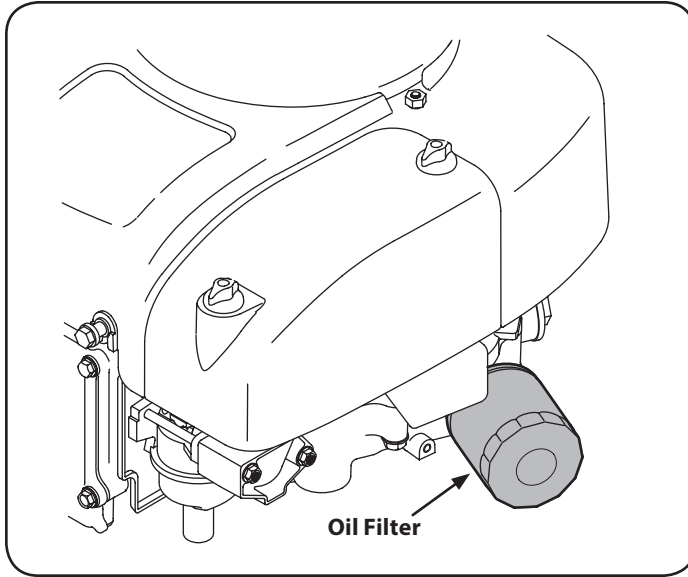


Figure 12

12. Install the oil filter by hand until the gasket contacts the oil filter adapter, then tighten the oil filter 1/2 to 3/4 turns.
13. Refill the engine with new motor oil until the oil level on the dipstick reads FULL. Replace the oil fill cap/dipstick.

### ⚠ CAUTION

Used oil is a hazardous waste product. Dispose of used oil properly. Do not discard with household waste. Check with your local authorities or or contact 1-888-331-4569 for a list of safe disposal/recycling facilities.

14. Start and run the engine. As the engine warms up, check for oil leaks.
15. Stop the engine and check the oil level. It should be at the FULL mark on the dipstick.

### Fuel Filter

### ⚠ WARNING

Gasoline and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death.

- Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.
- Before replacing the fuel filter, drain the fuel tank as per the instructions below.
- 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.
- Remove the fuel line from the In-line side (side towards the fuel tank) of the fuel filter.
- Replacement parts must be the same and installed in the same position as the original parts.
- If fuel spills, wait until it evaporates before starting engine.

- Before replacing the fuel filter, drain the fuel tank. Otherwise, fuel can leak out and cause a fire or explosion.

### To Drain the fuel:

1. Locate the fuel filter, see Figure 11, which is routed on the left side of the engine between the fuel tank and the carburetor, and may be attached to the engine with a tie strap. Cut the tie strap, if present, then pinch the tabs on the in-line clamp on the fuel filter with a pair of pliers, slide the clamp up the fuel line. Pull the fuel line free from the filter and place the open end of the line into an approved container to drain the fuel.

### To change the fuel filter:

1. Use pliers to squeeze the tabs on the other clamp (the out-line side of the fuel filter), then slide the clamp away from the fuel filter. Twist and pull the fuel line off of the fuel filter. See Figure 13.

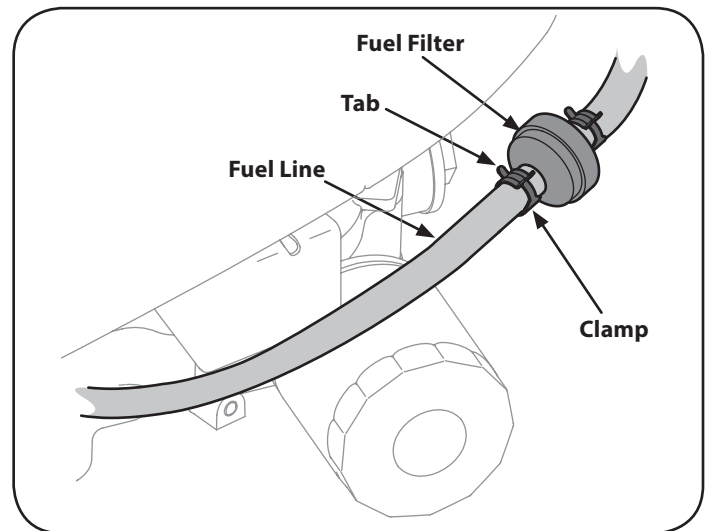


Figure 13

2. Check the fuel lines for cracks or leaks. Replace if necessary.
3. Replace the fuel filter with an original equipment replacement filter. Call 1-888-331-4569 to purchase the original equipment replacement filter.
4. Secure the fuel lines with the clamps.

### ⚠ WARNING

If filters, or covers are not installed correctly serious injury or death could result from backfire. Do not attempt to start the engine with them removed.

### ⚠ CAUTION

Do not use pressurized air or solvents to clean the air cleaner cartridge.

# SERVICE AND MAINTENANCE

## Air Cleaner

Paper filters cannot be cleaned and should be replaced every 100 operating hours; more often if used in extremely dusty conditions.

### WARNING

Never use gasoline or low flash point solvents for cleaning the air filter element. A fire or explosion could result.

**IMPORTANT:** Never run the engine without the air filter. Rapid engine wear will result.

1. Unscrew the thumb screws and remove the air filter cover. See Figure 14.

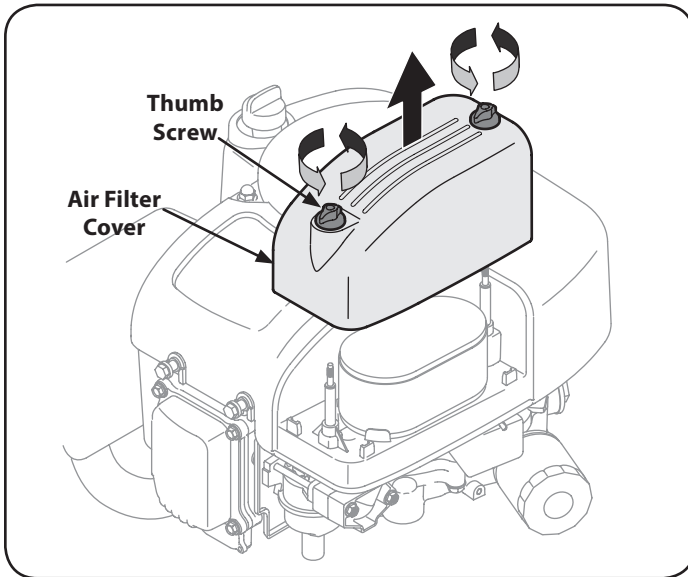


Figure 14

2. Remove the air filter. See Figure 15.

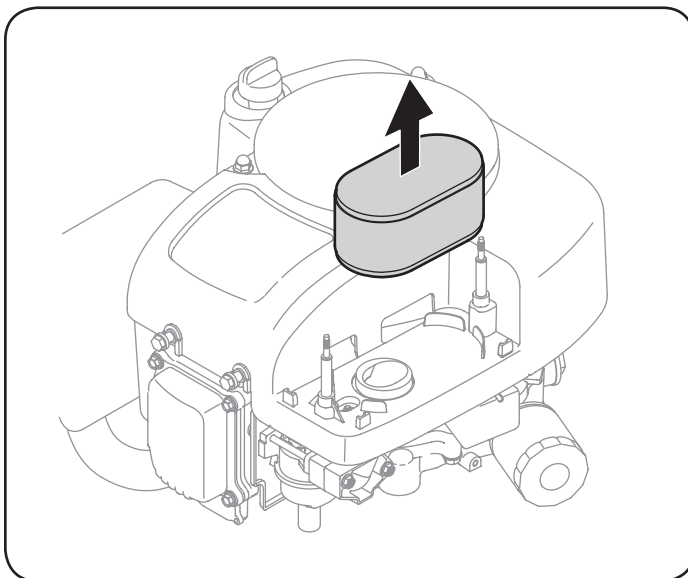


Figure 15

3. Remove the foam pre-filter from around the paper air filter. See Figure 16. Replace paper element when dirty or damaged. Clean foam element or replace when damaged.

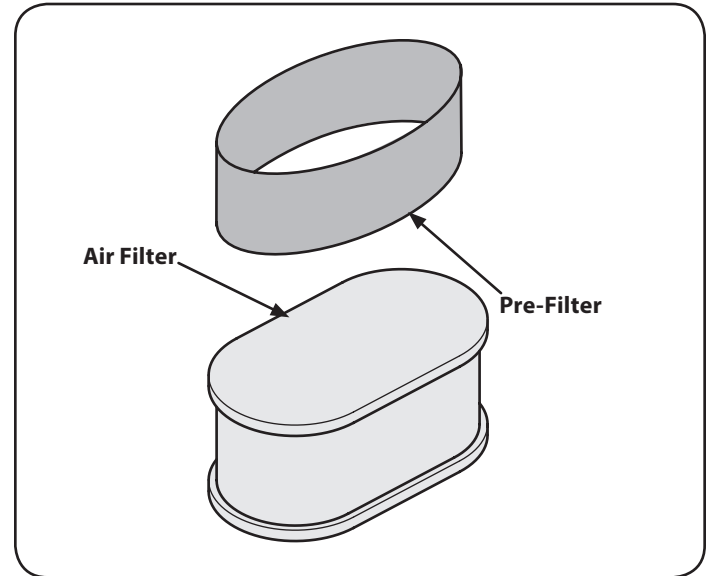


Figure 16

4. To clean foam element, wash in a mild liquid detergent and water. Squeeze or press the foam element to rinse out dirt and water. Do not twist; this could damage or tear the foam element. Allow to dry thoroughly before using. DO NOT oil the foam element.
5. Attach the new air filter with foam element, aligning the hole in the air filter with the intake manifold. See Figure 17.

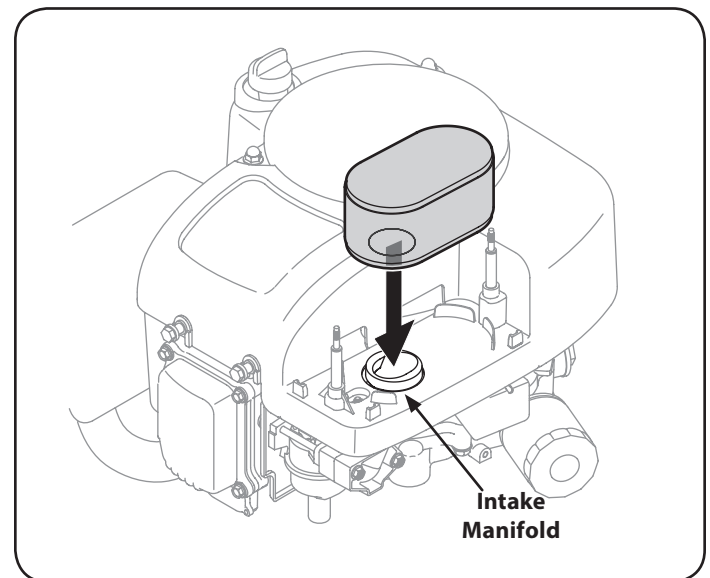


Figure 17

# SERVICE AND MAINTENANCE

6. Attach the air filter cover, making sure to align plastic rib features on the shroud to the plastic features on the air filter cover. See Figure 18. Turn thumb screws clockwise until snug. Check for any misalignment.

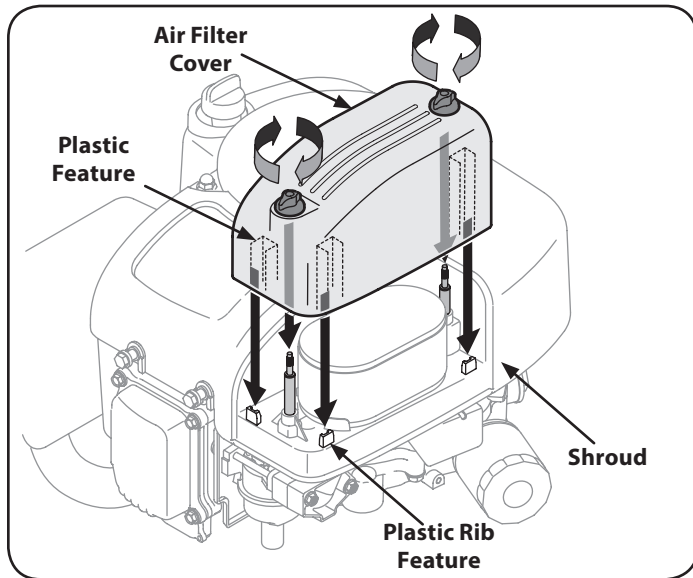


Figure 18

## Spark Plug Service

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Remove the spark plug boot and use a spark plug wrench to remove the plug. See Figure 19.

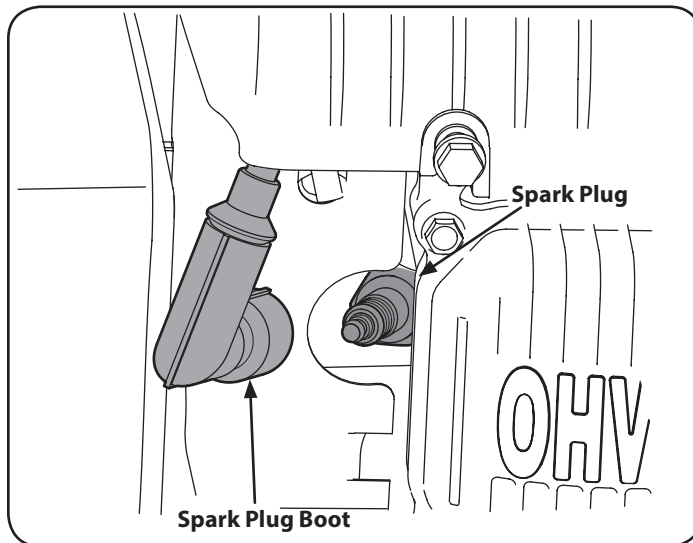


Figure 19

## ⚠ WARNING

If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

2. Visually inspect the spark plug. Discard the spark plug if there is apparent wear, or if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.

3. Measure the plug gap with a feeler gauge. Correct as necessary by bending side electrode. See Figure 20. The gap should be set to 0.024-0.031 in.

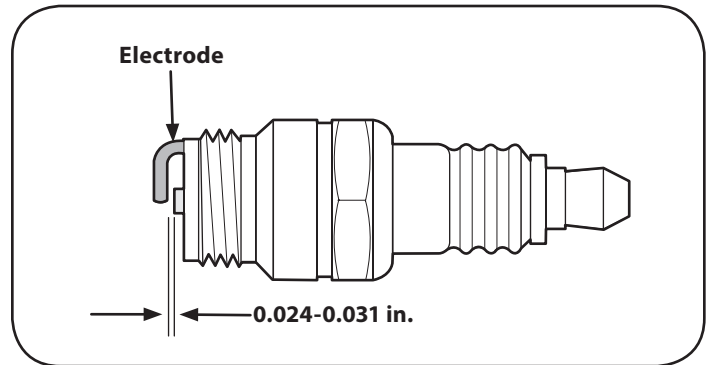


Figure 20

4. Check that the spark plug washer is in good condition and thread the spark plug in by hand to prevent cross-threading.
5. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

**NOTE:** When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. When reinstalling a used spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer.

**IMPORTANT:** The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may damage the engine.

## 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.

## Clean Engine

- Daily or before every use, clean grass, chaff or accumulated debris from engine. Keep linkage, spring, and controls clean.
- Keep area around and behind muffler free of any combustible debris.
- Keeping engine clean allows air movement around engine.
- Engine parts should be kept clean to reduce the risk of overheating and ignition of accumulated debris.

### ⚠ CAUTION

Do not use water to clean engine parts. Water could contaminate fuel system. Use a brush or dry cloth.

## Carburetor Adjustment

- The carburetor on this engine is not adjustable.

# SERVICE AND MAINTENANCE

## Lubrication

### ⚠ WARNING

Before lubricating, repairing, or inspecting, always disengage PTO (Blade Engage Lever), move shift lever into neutral position, set parking brake, stop engine and remove key to prevent unintended starting.

## 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.

## 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 its terminal first, followed by the POSITIVE (Red) wire. When re-installing the battery, always connect the POSITIVE (Red) wire to 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.

## 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.

## Cleaning the Engine And Deck

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.

A screw and deck plug can be found on your tractor's deck surface and can be replaced with a water port to be used as part of a separately-available deck wash system, used to rinse grass clippings from the deck's underside and prevent the buildup of corrosive chemicals. For more information, call 1-888-331-4569.

## Adjustments

### ⚠ WARNING

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

## Leveling the Deck

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

## Front To Rear

The front of the cutting deck is supported by a stabilizer bar that can be adjusted to level the deck from front to rear. The front of the deck should be between ¼-inch and ⅜-inch lower than the rear of the deck. Adjust if necessary as follows:

1. With the tractor parked on a firm, level surface, place the lever for lifting the platform on the second to the top notch (second highest position) and rotate the blade as close as possible to the discharge channel that is parallel to 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 ¼" and ⅜" 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 side of the stabilizer bracket. See Figure 21.
  - Tighten the flange lock nut to raise the front of the deck;
  - Loosen the flange lock nut to lower the front of the deck.

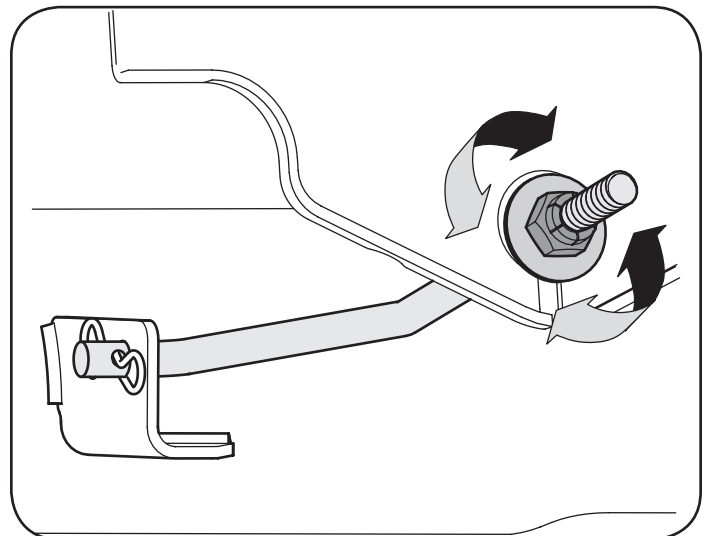


Figure 21



# SERVICE AND MAINTENANCE

## Side to Side

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

1. With the tractor parked on a firm, level surface, place the deck lift lever in the second from the top notch (second highest position) and rotate both blades so that they are perpendicular with the tractor.
2. Measure the distance from the outside of the left blade tip to the ground and the distance from the outside of the right blade tip to the ground. Both measurements taken should be equal. If they're not, proceed to the next step.
3. Loosen, but do NOT remove, the hex cap screw on the left deck hanger bracket. See Figure 22.
4. Balance the deck by using a wrench to turn the adjustment gear (found immediately behind the hex cap screw just loosened) clockwise/up or counterclockwise/down. The deck is properly balanced when both blade tip measurements taken earlier are equal.
5. Retighten the hex cap screw on the left deck hanger bracket when proper adjustment is achieved.

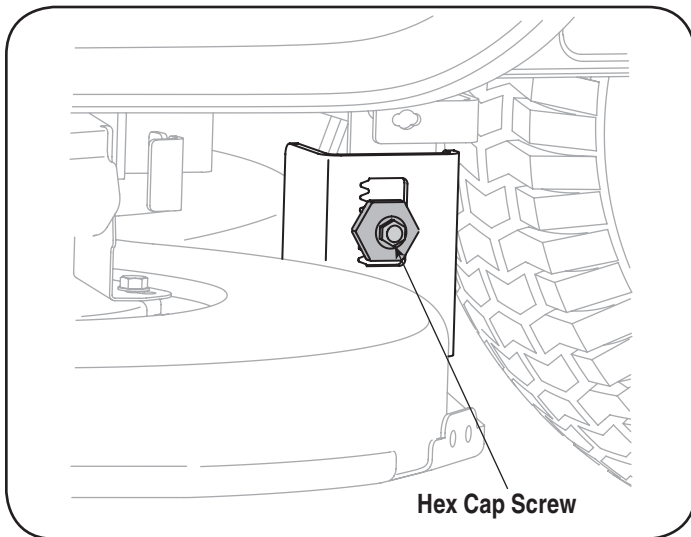


Figure 22

## Seat Adjustment

Refer to the 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 (blade engage) lever, 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. Contact the nearest Sears Service Center to have your brakes properly adjusted.

To locate the nearest Parts & Repair Service Center or to schedule service, contact 1-888-331-4569.

## Cutting Deck Removal

To remove the cutting deck, proceed as follows:

1. 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.
3. Remove the self-tapping screw (A) that secures the belt-keeper rod from around the tractor's PTO pulley, then remove the belt keeper rod (B). See .  
**Note:** Make a mental note what hole the other end of the belt-keeper rod is inserted in for reinstallation purposes.
4. Remove the belt (C) from around the tractor's PTO pulley. See Figure 23.

### ⚠ WARNING

Avoid pinching injuries. Never place your fingers on the idler spring or between the belt and a pulley while removing the belt.

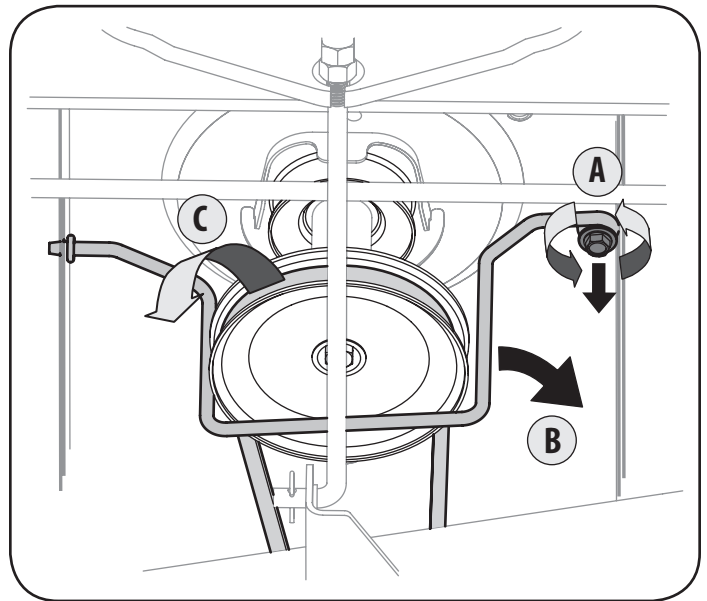


Figure 23

5. Looking at the cutting deck from the left side of the tractor, locate the bow-tie pin that secures the deck support rod on the rear left side of the deck. See Figure 24. Remove the bow-tie pin that secures the deck support rod, and carefully remove the deck support from the deck lift arm.
6. Repeat the above steps on the tractor's right side.  
**Note:** The bow-tie clips should be re-installed from the top down.
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.

## SERVICE AND MAINTENANCE

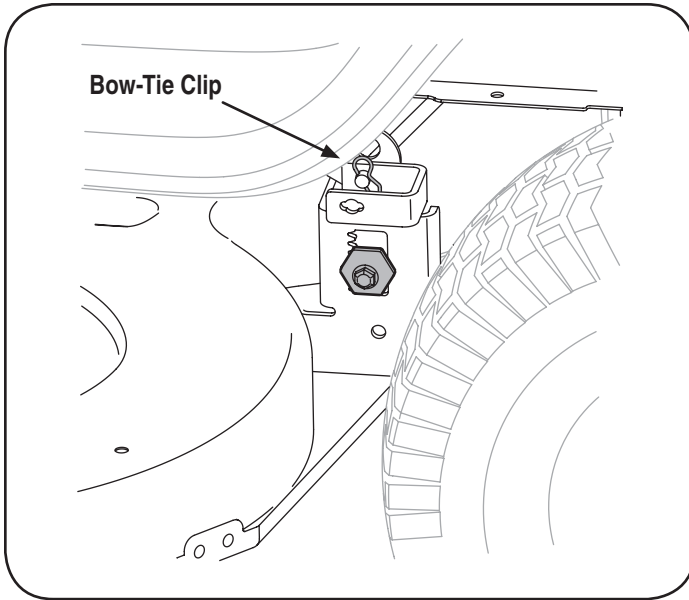


Figure 24

8. Remove the bow-tie cotter pin securing the deck stabilizer rod to the deck. Slide the deck lift rod from the mounting bracket on the deck as shown in Figure 25.

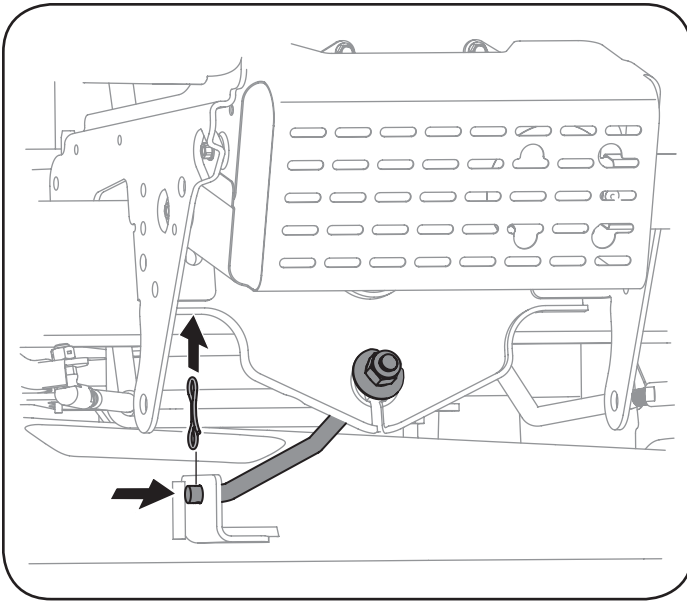


Figure 25

9. 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 26.
10. Gently slide the cutting deck (from the left side) out from underneath the tractor.

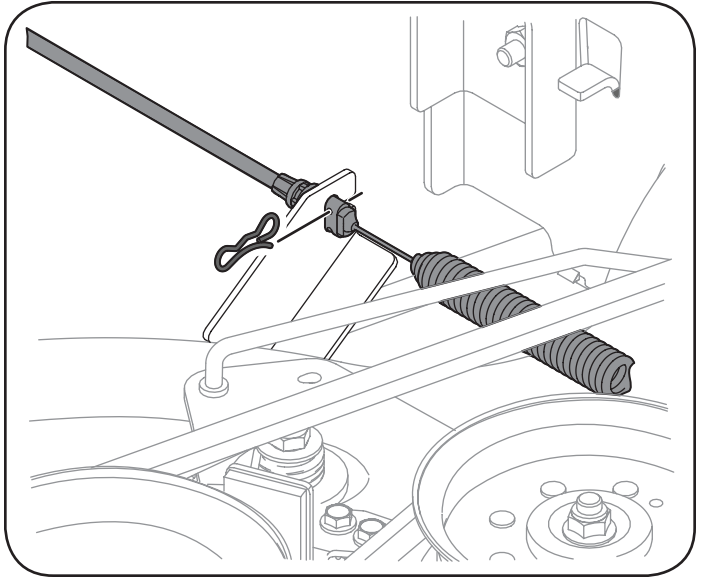


Figure 26

### Tires

#### ⚠ WARNING

Never exceed the maximum inflation pressure shown on the sidewall of 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.

### 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 its terminal first, followed by the POSITIVE (Red) wire. When re-installing the battery, always connect the POSITIVE (Red) wire to its terminal first, followed by the NEGATIVE (Black) wire.

### 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.

1. 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.
4. Connect the other end of the negative cable to the engine block of the tractor, away from the battery. Attach to an unpainted part to assure a good connection.

# SERVICE AND MAINTENANCE

## ⚠ WARNING

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.

5. Start the tractor (as instructed earlier in this section of this manual).
6. 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.
2. 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 20 AMP fuse is installed in your tractor's wiring harness 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 Blades

## ⚠ 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 and/or spindle for cracks or damage, especially after you've struck a foreign object. Do not operate the machine until damaged components are replaced.

To remove the blades, proceed as follows:

1. Remove 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.
2. Place a block of wood between the center deck housing baffle and the cutting blade to act as a stabilizer. See Figure 27.

3. Remove the hex flange nut that secures the blade to the spindle assembly.

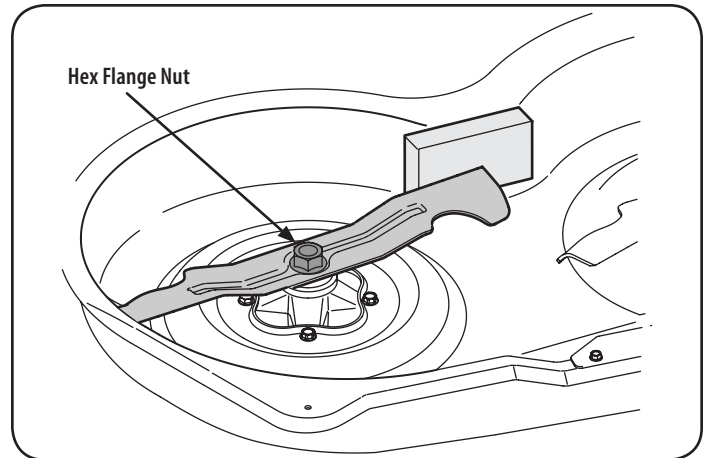


Figure 27

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 28.

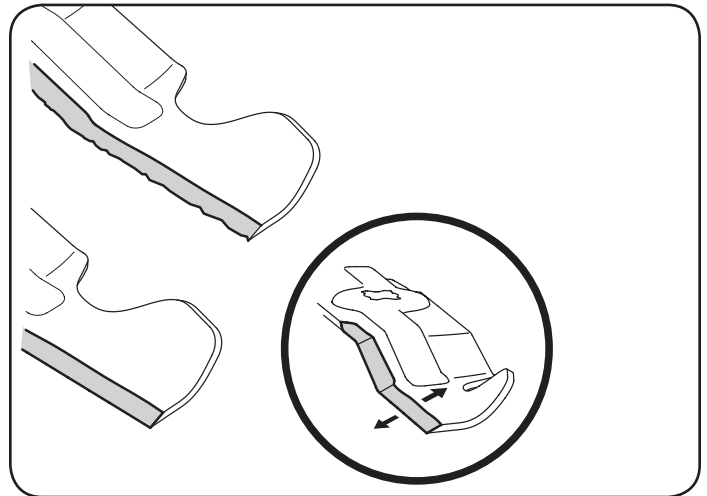


Figure 28

## ⚠ CAUTION

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.

5. 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.

# SERVICE AND MAINTENANCE

## Changing the Deck Belt

### WARNING

Be sure to shut the engine off, remove ignition key, disconnect the spark plug wire(s) and ground against the engine to prevent unintended starting before removing the belt.

### CAUTION

All belts on your tractor are subject to wear and should be replaced if any signs of wear are present.

**IMPORTANT:** The V-belt found on your tractor is specially designed to engage and disengage safely. A substitute (non-OEM) V-belt can be dangerous by not disengaging completely. For a proper working machine, use identical equipment belts as listed in the parts pages of this Operator's Manual.

To change or replace the deck belt on your tractor, proceed as follows:

Remove the deck as instructed earlier in this section.

1. Remove the belt covers from the spindle pulleys by removing the hex screws that fasten the covers to the deck. See Figure 29.
2. It may also be necessary to loosen the hex nut on the left deck idler pulley to get the belt off the pulley and around the belt guard.
3. Carefully remove the deck belt from around the two spindle pulleys and the two deck idler pulleys. See Figure 29.
4. To place the new belt, begin by routing the belt around the two outer spindle pulleys as shown in Figure 29.
5. Then route the belt around the two deck idler pulleys as shown in Figure 29.
6. Retighten the belt keeper rod loosened earlier.

7. Remount the belt guards removed earlier.
8. Re-install the deck, making sure the belt remains routed around the pulleys as instructed. The complete belt routing is shown in Figure 29.
9. Pull the right side of the belt, and place the narrow V side of the belt into the PTO pulley.
10. While holding the belt and pulley together, rotate the pulley to the left. Continue holding and rotating the pulley and belt until the belt is fully rolled into the PTO pulley.

## Parking Brake Adjustment

### WARNING

Never attempt to adjust the brakes while the engine is running. Always disengage PTO (Blade Engage Lever), 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 clutch-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. Contact the nearest **Parts & Repair Service Center** to have your brakes serviced.

To locate the nearest **Parts & Repair Service Center** or to schedule service, contact 1-888-331-4569.

## 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. Contact the nearest **Parts & Repair Service Center** to have your transmission drive belt serviced.

To locate the nearest **Parts & Repair Service Center** or to schedule service, contact 1-888-331-4569.

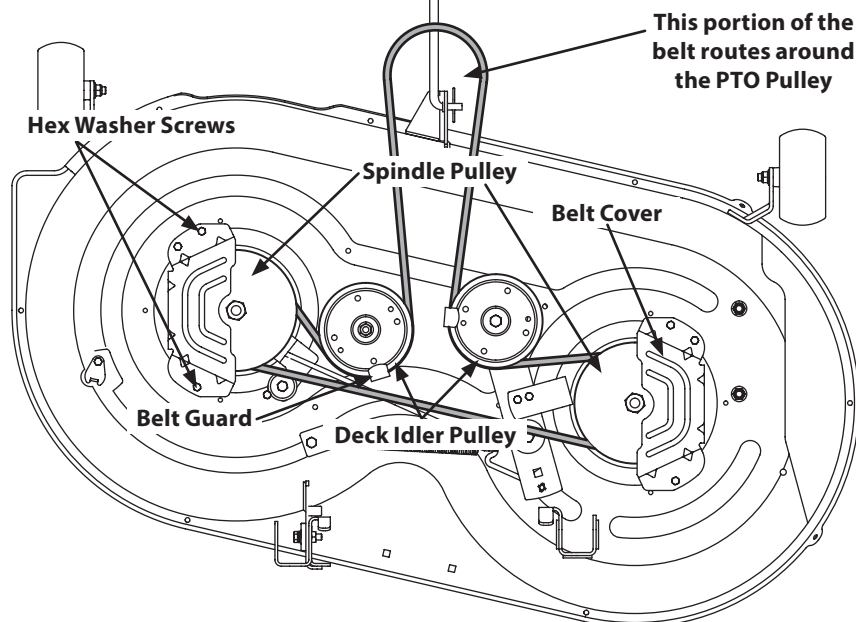


Figure 29

# 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.

1. If using a fuel stabilizer:
  - a. Read the product manufacturer's instructions and recommendations.
  - b. Add to clean, fresh gasoline the correct amount of stabilizer for the capacity of the fuel system.
  - c. 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:
  - a. 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.
  - b. 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.

- c. 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.
  - d. 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.

3. 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

1. 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.
2. 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

1. Clean and lubricate tractor thoroughly as described in the lubrication instructions.
2. 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.

# TROUBLESHOOTING

Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> <li>1. PTO/Blade Engage lever engaged.</li> <li>2. Parking brake not engaged.</li> <li>3. Spark plug wire(s) disconnected.</li> <li>4. Throttle/Choke control lever not in correct starting position.</li> <li>5. Choke not activated</li> <li>6. Fuel tank empty, or stale fuel.</li> <li>7. Blocked fuel line.</li> <li>8. Faulty spark plug(s).</li> <li>9. Engine flooded.</li> <li>10. Blown Fuse(s)</li> </ol>	<ol style="list-style-type: none"> <li>1. Place lever in disengaged (OFF) position.</li> <li>2. Engage parking brake.</li> <li>3. Connect wire(s) to spark plug(s).</li> <li>4. Place Throttle/Choke lever into the FAST position.</li> <li>5. Move the Throttle/Choke lever into the Choke position.</li> <li>6. Fill tank with clean, fresh (less than 30 days old) gas.</li> <li>7. Replace the fuel line and replace fuel filter.</li> <li>8. Clean, adjust gap or replace plug(s).</li> <li>9. Crank engine with throttle in FAST position.</li> <li>10. Replace Fuse(s) See "Fuse" in Service and Maintenance section.</li> </ol>
Engine runs erratically	<ol style="list-style-type: none"> <li>1. Unit running with CHOKE activated.</li> <li>2. Spark plug wire(s) loose.</li> <li>3. Blocked fuel line or stale fuel.</li> <li>4. Vent in gas cap plugged.</li> <li>5. Water or dirt in fuel system.</li> <li>6. Dirty air cleaner.</li> </ol>	<ol style="list-style-type: none"> <li>1. Deactivate the CHOKE.</li> <li>2. Connect spark plug wire(s).</li> <li>3. Replace the fuel line; fill tank with clean, fresh gasoline and replace fuel filter.</li> <li>4. Clear vent or replace cap if damaged.</li> <li>5. Drain fuel tank. Refill with clean, fresh gasoline.</li> <li>6. Replace air cleaner paper element or clean foam pre-cleaner, if equipped.</li> </ol>
Engine overheats	<ol style="list-style-type: none"> <li>1. Engine oil level low.</li> <li>2. Air flow restricted.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper amount and weight of oil.</li> <li>2. Clean grass clippings and debris from around the engine's cooling fins and housing.</li> </ol>
Engine hesitates at high RPM	<ol style="list-style-type: none"> <li>1. Spark plug gap too close.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove spark plug and reset the gap.</li> </ol>
Engine idles rough	<ol style="list-style-type: none"> <li>1. Spark plug fouled, faulty or gap too wide.</li> <li>2. Dirty air cleaner.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace spark plug. Set plug gap.</li> <li>2. Replace air cleaner element and/or clean pre-cleaner.</li> </ol>
Excessive vibration	<ol style="list-style-type: none"> <li>1. Cutting blade loose or unbalanced.</li> <li>2. Damaged or bent cutting blade.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten blade and spindle.</li> <li>2. Replace blade.</li> </ol>
Mower will not mulch grass	<ol style="list-style-type: none"> <li>1. Engine speed too low.</li> <li>2. Wet grass.</li> <li>3. Excessively high grass.</li> <li>4. Dull blade.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place throttle in FAST (rabbit) position.</li> <li>2. Do not mulch when grass is wet.</li> <li>3. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath.</li> <li>4. Sharpen or replace blade.</li> </ol>
Uneven cut	<ol style="list-style-type: none"> <li>1. Deck not leveled properly.</li> <li>2. Dull blade.</li> <li>3. Uneven tire pressure.</li> </ol>	<ol style="list-style-type: none"> <li>1. Perform side-to-side deck adjustment.</li> <li>2. Sharpen or replace blade.</li> <li>3. Check tire pressure in all four tires.</li> </ol>

## NEED MORE HELP?

You'll find the answer and more on [managemylife.com](http://managemylife.com) – for free!

- Find this and all your other product manuals online.
- Get answers from our team of home experts.
- Get a personalized maintenance plan for your home.
- Find information and tools to help with home projects.



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## **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 emission control system (ECS) warranty on your 2014-2015 small off-road spark-ignited engine and 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 the carburetor, fuel-injection system, ignition system, catalytic converter, 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.
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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
  - Cold start enrichment system (soft choke)
  - Carburetor and internal parts (or fuel injection system)
  - Fuel pump
  - Fuel tank
2. Air Induction System
  - Air cleaner
  - Intake manifold
3. Ignition System
  - Spark plug(s)
  - Magneto ignition system
4. Exhaust System
  - Catalytic converter
  - SAI (Reed valve)
5. Miscellaneous Items Used in Above System
  - Vacuum, temperature, position, time sensitive valves and switches
  - Connectors and assemblies
6. Evaporative Control
  - Fuel hose
  - Fuel hose clamps
  - Tethered fuel cap
  - Carbon canister
  - Vapor lines

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## **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 2014-2015 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.
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## **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

## REPAIR PROTECTION AGREEMENT

*Congratulations on making a smart purchase.* Your new Craftsman® product is designed and manufactured for years of dependable operation. But like all products, it may require repair from time to time. That's when having a Repair Protection Agreement can save you money and aggravation.

### **Here's what the Repair Protection Agreement\* includes:**

- ☑ **Expert service** by our 10,000 professional repair specialists
- ☑ **Unlimited service and no charge** for parts and labor on all covered repairs
- ☑ **Product replacement** up to \$1500 if your covered product can't be fixed
- ☑ **Discount of 25%** from regular price of service and related installed parts not covered by the agreement; also, 25% off regular price of preventive maintenance check
- ☑ **Fast help by phone** – we call it Rapid Resolution – phone support from a Sears representative. Think of us as a “talking owner's manual.”

Once you purchase the Repair Protection Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

The Repair Protection Agreement is a risk-free purchase. If you cancel for any reason during the product warranty period, we will provide a full refund. Or, a prorated refund anytime after the product warranty period expires. Purchase your Repair Protection Agreement today!

**Some limitations and exclusions apply. For prices and additional information in the U.S.A. call 1-800-827-6655.**

**\*Coverage in Canada varies on some items. For full details call Sears Canada at 1-800-361-6665.**

### **Sears Installation Service**

*For Sears professional installation* of home appliances, garage door openers, water heaters, and other major home items, in the U.S.A. or Canada call **1-888-331-4569**.

# **CRAFTSMAN®**

**Product questions or problems?**

## **1-888-331-4569**

### **Customer Care Hot Line**

**Get answers to questions, troubleshoot problems,  
order parts, or schedule repair service.**

Para respuestas a preguntas o problemas, y ordenar  
piezas o pedir servicio para la reparación de su equipo.

**To help us help you, register your product at [www.craftsman.com/registration](http://www.craftsman.com/registration)**

Para poderte ayudar mejor, registra tu producto en [www.craftsman.com/registration](http://www.craftsman.com/registration)

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