

Form No. 3436-432 Rev A

Count on it.

Operator's Manual

TimeCutter® 6000 Riding Mower

Model No. 75760-Serial No. 400000000 and Up



Gross or Net Torque: The gross or net torque of this engine was laboratory rated by the engine manufacturer in accordance with the Society of Automotive Engineers (SAE) J1940 or J2723. As configured to meet safety, emission, and operating requirements, the actual engine torque on this class of mower will be significantly lower. Please refer to the engine manufacturer's information included with the machine.

Go to www.Toro.com to view specifications on your model.

Important: If you are using a machine with a Toro engine above 1500 m (5,000 ft) for a continuous period, ensure that the High Altitude Kit has been installed so that the engine meets CARB/EPA emission regulations. The High Altitude Kit increases engine performance while preventing spark-plug fouling, hard starting, and increased emissions. Once you have installed the kit, attach the high-altitude label next to the serial decal on the machine. Contact any Authorized Toro Service Dealer to obtain the proper High Altitude Kit and high-altitude label for your machine. To locate a dealer convenient to you, access our website at www.Toro.com or contact our Toro Customer Care Department at the number(s) listed in your **Emission Control Warranty Statement.**

Remove the kit from the engine and restore the engine to its original factory configuration when running the engine under 1500 m (5,000 ft). Do not operate an engine that has been converted for high-altitude use at lower altitudes; otherwise, you could overheat and damage the engine.

If you are unsure whether or not your machine has been converted for high-altitude use, look for the following label.

NOTE: THE ENGINE ON THIS PRODUCT HAS BEEN MODIFIED FOR USE AT ABOVE 5,000 FEET ELEVATION. IF USING BELOW 5,000 FEET, IT MUST BE REVISED BACK TO ORIGINAL SPECIFICATIONS.

decal127-9363

Introduction

This rotary-blade, riding lawn mower is intended to be used by homeowners in residential applications. It is designed primarily for cutting grass on well-maintained lawns. Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

Visit www.Toro.com for product safety and operation training materials, accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. Figure 1 identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.

Important: With your mobile device, you can scan the QR code on the serial number decal (if equipped) to access warranty, parts, and other product information.

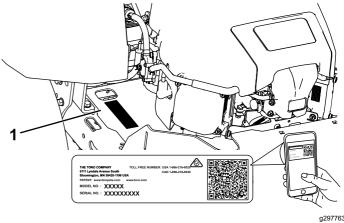


Figure 1

1. Model and serial number location

Write the product model and serial numbers in the space below:

Model No. _____

Serial No. ____

The safety-alert symbol (Figure 2) appears both in this manual and on the machine to identify important safety messages that you must follow to avoid accidents. This symbol will appear with the word **Danger**, **Warning**, or **Caution**.

- **Danger** indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.
- **Warning** indicates a potentially hazardous situation which, if not avoided, **could** result in death or serious injury.
- **Caution** indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury.



Figure 2

sa-black

1. Safety-alert symbol

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Safety

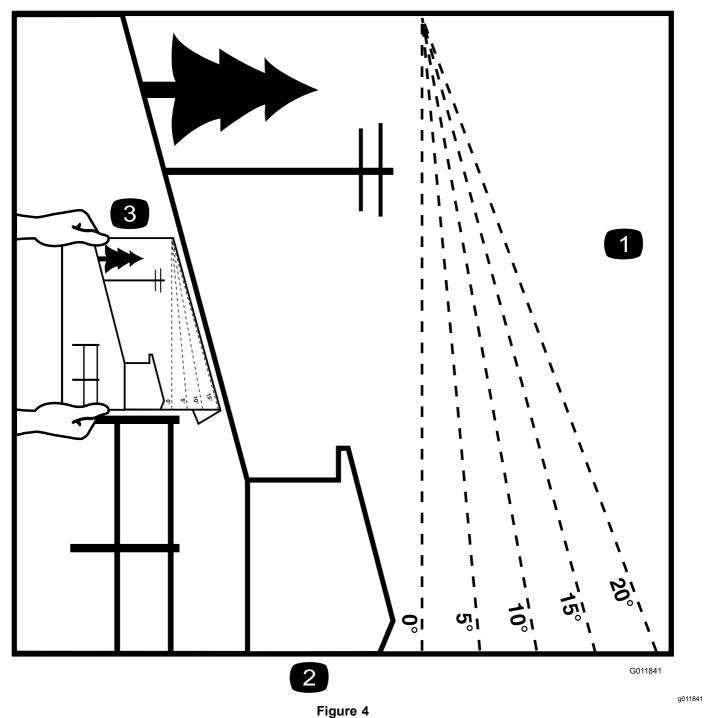
The following instructions are from ANSI standard B71.1-2017.

General Safety

This product is capable of amputating hands and feet and of throwing objects. Always follow all safety instructions to avoid serious personal injury.

- Read and understand the contents of this *Operator's Manual* before starting the engine.
- Keep bystanders and children away.
- Do not allow children or untrained people to operate or service the machine. Allow only people who are responsible, trained, familiar with the instructions, and physically capable to operate or service the machine.
- Do not operate the machine near drop-offs, ditches, embankments, water, or other hazards, or on slopes greater than 15°.
- Do not put your hands or feet near moving components of the machine.
- Do not operate the machine without all guards, safety switches, and other safety protective devices in place and functioning properly.
- Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operator's position. Allow the machine to cool before servicing, adjusting, fueling, cleaning, or storing it.

Slope Indicator



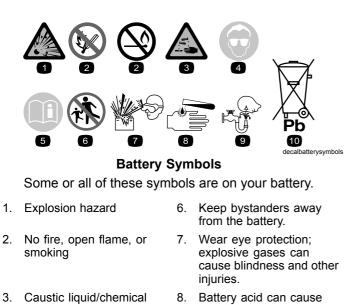
You may copy this page for personal use.

- 1. The maximum slope you can operate the machine on is **15 degrees**. Use the slope chart to determine the degree of slope of hills before operating. **Do not operate this machine on a slope greater than 15 degrees.** Fold along the appropriate line to match the recommended slope.
- 2. Align this edge with a vertical surface, a tree, building, fence pole, etc.
- 3. Example of how to compare slope with folded edge

Safety and Instructional Decals



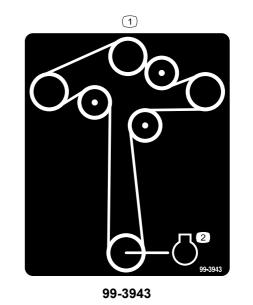
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.



- 3. Caustic liquid/chemical burn hazard
- 4. Wear eye protection.
- 5. Read the Operator's Manual.

machine manufacturer.

- Battery acid can cause blindness or severe burns.
 Flush eyes immediately
- with water and get medical help fast. 10. Contains lead; do not
- discard

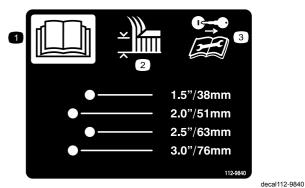


- Belt routing
- 2. Engine

1.

ecaloemmarkt

ecal93-7009



112-9840

- 1. Read the Operator's Manual.
- Remove the ignition key and read the instructions before servicing or performing maintenance.

decal99-3943

- 2. Height of cut
- 1. Warning—do not operate the mower with the deflector up or removed; keep the deflector in place.

93-7009

Manufacturer's Mark

1. Indicates the blade is identified as a part from the original

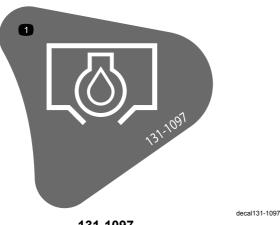
2. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts.



121-2989

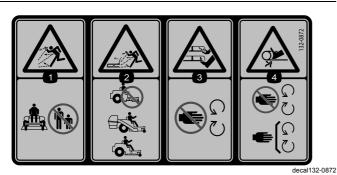
- 1. Bypass lever position for pushing the machine
- 2. Bypass lever position for operating the machine

decal121-2989b



131-1097

1. Oil drain



132-0872

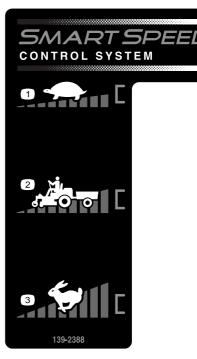
- 1. Thrown object hazard-keep bystanders away from the machine.
- 2. Thrown object hazard, raised baffle-do not operate the machine with an open deck; use a bagger or a baffle.
- 3. Severing hazard of hand or foot-keep away from moving parts.
- 4. Entanglement hazard-keep away from moving parts; keep all guards and shields in place.





138-2456

- 1. Read the Operator's Manual.
- 3. Do not overfill the fuel tank.
- Park the machine on a 2. level surface when filling the fuel tank.



139-2388

- Slow
- 2. Hauling

1.



decal139-2388

decal139-2394



139-2394

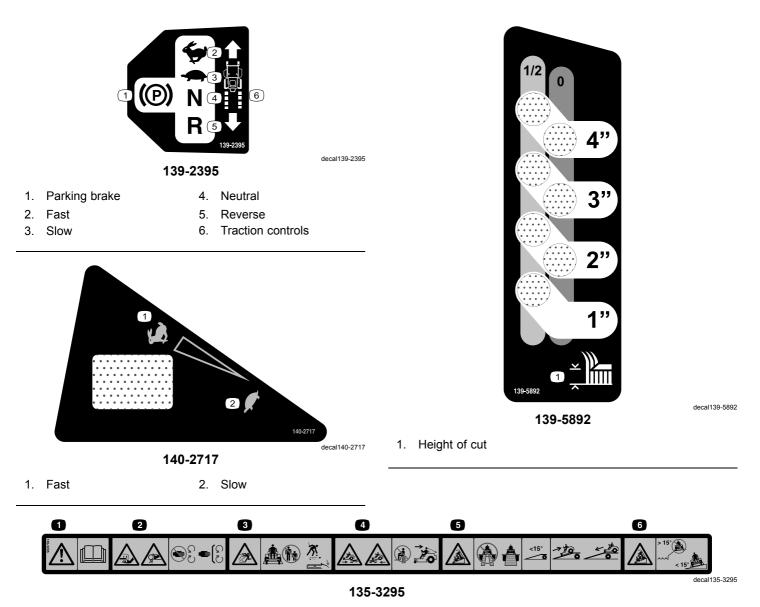
- 4. Neutral
- 5. Reverse

Fast 3. Slow

2.

1. Traction controls

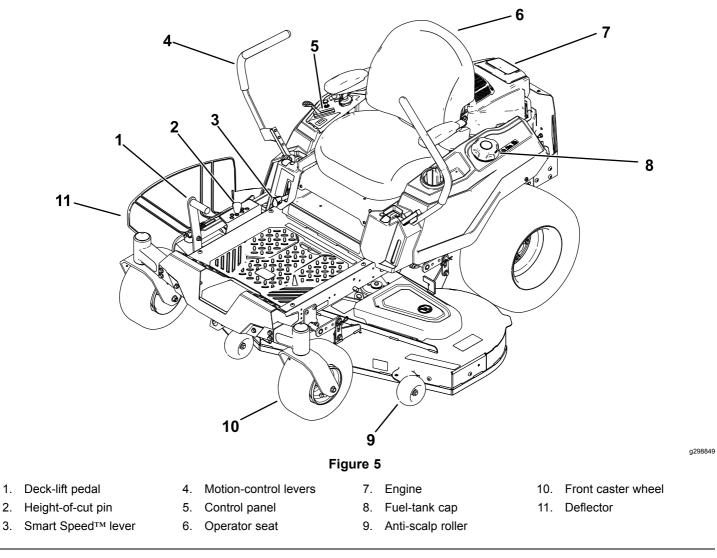
- 6. Parking brake



Note: This machine complies with the industry standard stability test in the static lateral and longitudinal tests with the maximum recommended slope indicated on the decal. Review the instructions for operating the machine on slopes in the *Operator's Manual* as well as the conditions in which you would operate the machine to determine whether you can operate the machine in the conditions on that day and at that site. Changes in the terrain can result in a change in slope operation for the machine.

- 1. Warning-read the Operator's Manual.
- Cutting/dismemberment hazard of hand, mower blade; entanglement hazard of hand, belt—stay away from moving parts; keep all guards and shields in place.
- 3. Thrown object hazard—keep bystanders away; pick up debris 6. before mowing; keep the deflector shield lowered.
- 4. Runover hazard—do not carry passengers; look behind you when moving in reverse.
- Tipping hazard—when loading onto a trailer, do not use dual ramps; only use a singular ramp wide enough for the machine; do not use a ramp with a slope greater than 15°; back up the ramp (in reverse) and drive forward off the ramp.
 - Tipping hazard—do not use the machine near drop-offs or on slopes greater than 15°; only operate across slopes less than 15°.

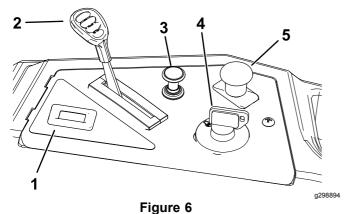
Product Overview



Controls

Become familiar with all the controls before you start the engine and operate the machine.

Control Panel



- 1. Hour meter
- 2. Throttle control

3. Choke control

- 4. Key switch
- 5. Blade-control switch (power takeoff)

Hour Meter

The hour meter records the number of hours the engine has operated. It operates when the engine is running. Use these times for scheduling regular maintenance (Figure 6).

Key Switch

The key switch, used to start and shut off the engine, has 3 positions: OFF, RUN, and START (Figure 6). Refer to Starting the Engine (page 18).

Throttle Control

The throttle controls the engine speed, and it has a continuous-variable setting from the SLOW to FAST position (Figure 6).

Choke Control

Use the choke control to start a cold engine (Figure 6).

Blade-Control Switch (Power Takeoff)

The blade-control switch, represented by a power-takeoff (PTO) symbol, engages and disengages power to the mower blades (Figure 6).

Motion-Control Levers

Use the motion-control levers to drive the machine forward, reverse, and turn either direction (Figure 5).

Park Position

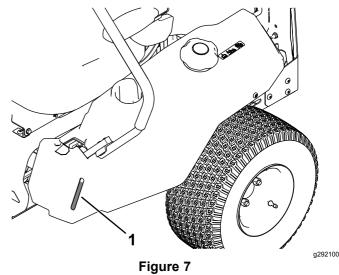
Move the motion-control levers outward from the center to the PARK position when exiting the machine (Figure 19). Always position the motion-control levers into the PARK position when you stop the machine or leave it unattended.

Smart SpeedTM Control System Lever

The Smart Speed[™] Control-System lever, located below the operating position, gives you a choice to drive the machine at 3 speed ranges— trim, tow, and mow (Figure 22).

Fuel-Presence Window

You can use the fuel window, located on the left side of the machine, to verify the presence of fuel in the tank (Figure 7).



1. Fuel-presence window

Height-of-Cut Pin

The height-of-cut pin works with the foot pedal to lock the deck in a specific cutting height. Adjust the height of cut only when the machine is not moving (Figure 5).

Foot Pedal Deck-Lift System

The foot pedal deck-lift system allows you to lower and raise the deck from the seated position. You can use the foot pedal to lift the deck briefly to avoid obstacles (Figure 5).

Attachments/Accessories

A selection of Toro approved attachments and accessories is available for use with the machine to enhance and expand its capabilities. Contact your Authorized Service Dealer or authorized Toro distributor or go to www.Toro.com for a list of all approved attachments and accessories.

To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

Operation

Note: Determine the left and right sides of the machine from the normal operating position.

Before Operation

Before Operation Safety

General Safety

- Do not allow children or untrained people to operate or service the machine. Local regulations may restrict the age of the operator. The owner is responsible for training all operators and mechanics.
- Inspect the area where you will use the machine, and remove all objects that could interfere with the operation of the machine or that the machine could throw.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- Check that operator-presence controls, safety switches, and guards are attached and working properly. Do not operate the machine unless they are functioning properly.
- Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operator's position. Allow the machine to cool before servicing, adjusting, fueling, cleaning, or storing it.
- Before mowing, inspect the machine to ensure that the cutting assemblies are working properly.
- Evaluate the terrain to determine the appropriate equipment and any attachments or accessories required to operate the machine properly and safely.
- Wear appropriate clothing, including eye protection; long pants; substantial, slip-resistant footwear; and hearing protection. Tie back long hair and do not wear loose clothing or loose jewelry.
- Do not carry passengers on the machine.
- Keep bystanders and pets away from the machine during operation. Shut off the machine and attachment(s) if anyone enters the area.
- Do not operate the machine unless all guards and safety devices, such as the deflectors and the entire grass catcher, are in place and functioning properly. Replace worn or deteriorated parts when necessary.

Fuel Safety

- Fuel is extremely flammable and highly explosive.
 A fire or explosion from fuel can burn you and others and can damage property.
 - To prevent a static charge from igniting the fuel, place the container and/or machine directly on the ground before filling, not in a vehicle or on an object.
 - Fill the fuel tank outdoors on level ground, in an open area, and when the engine is cold.
 Wipe up any fuel that spills.
 - Do not handle fuel when smoking or around an open flame or sparks.
 - Do not remove the fuel cap or add fuel to the tank while the engine is running or hot.
 - If you spill fuel, do not attempt to start the engine. Avoid creating a source of ignition until the fuel vapors have dissipated.
 - Store fuel in an approved container and keep it out of the reach of children.
- Fuel is harmful or fatal if swallowed. Long-term exposure to vapors can cause serious injury and illness.
 - Avoid prolonged breathing of vapors.
 - Keep your hands and face away from the nozzle and the fuel-tank opening.
 - Keep fuel away from your eyes and skin.
- Do not store the machine or fuel container where there is an open flame, spark, or pilot light, such as on a water heater or on other appliances.
- Do not fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground and away from your vehicle before filling.
- Remove the equipment from the truck or trailer and refuel it while it is on the ground. If this is not possible, then refuel from a portable container rather than from a fuel-dispenser nozzle.
- Do not operate the machine without the entire exhaust system in place and in proper working condition.
- Keep the fuel-dispenser 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.
- If you spill fuel on your clothing, change your clothing immediately.
- Do not overfill the fuel tank. Replace the fuel cap and tighten it securely.
- Clean grass and debris from the cutting unit, muffler, drives, grass catcher, and engine

compartment to help prevent fires. Clean up oil or fuel spills.

Adding Fuel

Recommended Fuel

- For best results, use only clean, fresh (less than 30 days old), unleaded gasoline with an octane rating of 87 or higher ((R+M)/2 rating method).
- Ethanol: Gasoline with up to 10% ethanol (gasohol) or 15% MTBE (methyl tertiary butyl ether) by volume is acceptable. Ethanol and MTBE are not the same. Gasoline with 15% ethanol (E15) by volume is not approved for use. Never use gasoline that contains more than 10% ethanol by volume, such as E15 (contains 15% ethanol), E20 (contains 20% ethanol), or E85 (contains up to 85% ethanol). Using unapproved gasoline may cause performance problems and/or engine damage which may not be covered under warranty.
- **Do not** use gasoline containing methanol.
- **Do not** store fuel either in the fuel tank or fuel containers over the winter unless you use a fuel stabilizer.
- Do not add oil to gasoline.

Using Stabilizer/Conditioner

Use fuel stabilizer/conditioner in the machine to keep the fuel fresh longer when used as directed by the fuel-stabilizer manufacturer.

Important: Do not use fuel additives containing methanol or ethanol.

Add the amount of fuel stabilizer/conditioner to fresh fuel as directed by the fuel-stabilizer manufacturer.

Filling the Fuel Tank

- 1. Park the machine on a level surface.
- 2. Move the motion-control levers outward to the PARK position.
- 3. Shut off the engine and remove the key.
- 4. Clean around the fuel-tank cap.
- 5. Fill the fuel tank to the bottom of the filler neck (Figure 8).

Note: Do not fill the fuel tank completely full. The empty space in the tank allows the fuel to expand.

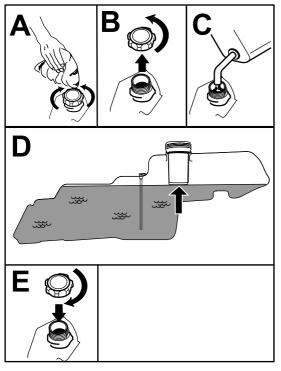


Figure 8

Performing Daily Maintenance

Before starting the machine each day, perform the Each Use/Daily procedures listed in Maintenance (page 24).

Breaking in a New Machine

New engines take time to develop full power. Mower decks and drive systems have higher friction when new, placing additional load on the engine. Allow 40 to 50 hours of break-in time for new machines to develop full power and best performance.

Using the Safety-Interlock System

A WARNING

If the safety-interlock switches are disconnected or damaged, the machine could operate unexpectedly, causing personal injury.

- Do not tamper with the interlock switches.
- Check the operation of the interlock switches daily and replace any damaged switches before operating the machine.

Understanding the Safety-Interlock System

The safety-interlock system is designed to prevent the engine from starting unless:

- The blade-control switch (PTO) is disengaged.
- The motion-control levers are in the PARK position.

The safety-interlock system also is designed to shut off the engine whenever the control levers are out of the PARK position and you rise from the seat.

Testing the Safety-Interlock System

Test the safety-interlock system before you use the machine each time. If the safety system does not operate as described below, have an Authorized Service Dealer repair the safety system immediately.

- 1. Sit on the seat, move the motion-control levers in the PARK position, and move the blade-control switch to the ON position. Try starting the engine; the engine should not crank.
- 2. Sit on the seat and move the blade-control switch to the OFF position. Move either motion-control lever to the center, unlocked position. Try starting the engine; the engine should not crank. Repeat with the other motion-control lever.
- 3. Sit on the seat, move the blade-control switch to the OFF position, and lock the motion-control levers in the PARK position. Start the engine. While the engine is running, engage the blade-control switch, and rise slightly from the seat; the engine should shut off.
- 4. Sit on the seat, move the blade-control switch to the OFF position, and lock the motion-control levers in the PARK position. Start the engine. While the engine is running, move the motion-control levers to the center, unlocked position, engage the blade-control switch, and rise slightly from the seat; the engine should shut off.

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Positioning the Seat

The seat can move forward and backward. Position the seat where you have the best control of the machine and are most comfortable (Figure 9).

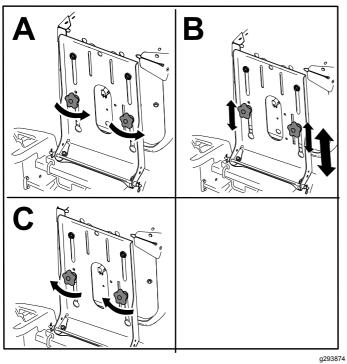


Figure 9

Adjusting the Motion-Control Levers

Adjusting the Height

You can adjust the motion-control levers higher or lower for maximum comfort (Figure 10).

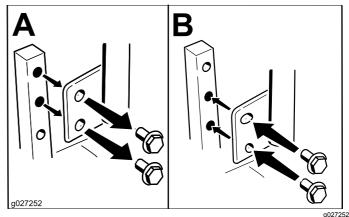


Figure 10

Adjusting the Tilt

You can adjust the motion-control levers forward or rearward for your comfort.

- 1. Loosen the upper bolt holding the control lever to the control-arm shaft.
- 2. Loosen the lower bolt just enough to pivot the control lever forward or rearward (Figure 10).
- 3. Tighten both bolts to secure the control lever in the new position.
- 4. Repeat the adjustment for the other control lever.

During Operation

During Operation Safety

General Safety

- The owner/operator can prevent and is responsible for accidents that may cause personal injury or property damage.
- Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
- Do not operate the machine while ill, tired, or under the influence of alcohol or drugs.
- Contacting the blade can result in serious personal injury. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position. When you turn the key to the OFF position, the engine should shut off and the blade should stop. If not, stop using your machine immediately and contact an Authorized Service Dealer.
- Operate the machine only in good visibility and appropriate weather conditions. Do not operate the machine when there is the risk of lightning.
- Keep your hands and feet away from the cutting units. Keep clear of the discharge opening.
- Do not mow with the discharge door raised, removed, or altered unless there is a grass-collection system or mulch kit in place and working properly.
- Do not mow in reverse unless it is absolutely necessary. Always look down and behind you before moving the machine in reverse.
- Use extreme care when approaching blind corners, shrubs, trees, or other objects that may block your view.
- Stop the blades whenever you are not mowing.
- If the machine strikes an object or starts to vibrate, immediately shut off the engine, remove the key (if equipped), and wait for all moving parts to stop before examining the machine for damage. Make all necessary repairs before resuming operation.
- Slow down and use caution when making turns and crossing roads and sidewalks with the machine. Always yield the right-of-way.
- Before you leave the operating position, do the following:
 - Park the machine on a level surface.
 - Disengage the power takeoff and lower the attachments.
 - Engage the parking brake.

- Shut off the engine and remove the key.
- Wait for all moving parts to stop.
- Operate the engine only in well-ventilated areas. Exhaust gases contain carbon monoxide, which is lethal if inhaled.
- Never leave a running machine unattended.
- Attach towed equipment to the machine only at the hitch point.
- Do not operate the machine unless all guards and safety devices, such as the deflectors and the entire grass catcher, are in place and functioning properly. Replace worn or deteriorated parts when necessary.Do not operate the machine unless all guards and safety devices, such as the deflectors and the entire grass catcher, are in place and functioning properly. Replace worn or deteriorated parts when necessary.
- Use only accessories and attachments approved by Toro.
- This machine produces sound levels in excess of 85 dBA at the operator's ear and can cause hearing loss through extended periods of exposure.



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Figure 11

- 1. Wear hearing protection.
- Clean grass and debris from the cutting unit, drives, muffler, and engine to help prevent fires.
- Start the engine with your feet well away from the blades.
- Never raise the mower deck while the blades are moving.
- Be aware of the mower discharge path and direct the discharge away from others. Avoid discharging material against a wall or obstruction because the material may ricochet back toward you.
- Stop the blades, slow down the machine, and use caution when crossing surfaces other than grass or when transporting the machine to and from the operating area.
- Do not change the engine governor speed or overspeed the engine.
- Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- Keep children out of the operating area and under the watchful care of a responsible adult other than the operator.
- Be alert and shut off the machine if children enter the operating area.
- Before backing up or turning the machine, look down and all around for small children.
- Do not carry children on the machine, even when the blades are not moving. Children could fall off and be seriously injured or prevent you from safely operating the machine. Children who have been given rides in the past could appear in the operating area without warning and be run over or backed over by the machine.

Slope Safety

- Slopes are a major factor related to loss of control and rollover accidents, which can result in severe injury or death. The operator is responsible for safe slope operation. Operating the machine on any slope requires extra caution. Before using the machine on a slope, do the following:
 - Review and understand the slope instructions in the manual and on the machine.
 - Use an angle indicator to determine the approximate slope angle of the area.
 - Never operate on slopes greater than 15°.
 - Evaluate the site conditions of the day to determine if the slope is safe for machine operation. Use common sense and good judgment when performing this evaluation. Changes in the terrain, such as moisture, can quickly affect the operation of the machine on a slope.
- Identify hazards at the base of the slope. Do not operate the machine near drop-offs, ditches, embankments, water, or other hazards. The machine could suddenly roll over if a wheel goes over the edge or the edge collapses. Keep a safe distance (twice the width of the machine) between the machine and any hazard. Use a walk-behind machine or a hand trimmer to mow the grass in these areas.
- Avoid starting, stopping, or turning the machine on slopes. Avoid making sudden changes in speed or direction; turn slowly and gradually.
- Do not operate a machine under any conditions where traction, steering, or stability is in question. Be aware that operating the machine on wet grass, across slopes, or downhill may cause the machine to lose traction. Loss of traction to the drive wheels may result in sliding and a loss of braking and steering. The machine can slide even if the drive wheels are stopped.

- Remove or mark obstacles such as ditches, holes, ruts, bumps, rocks, or other hidden hazards. Tall grass can hide obstacles. Uneven terrain could overturn the machine.
- Use extra care while operating with accessories or attachments, such as grass-collection systems. These can change the stability of the machine and cause a loss of control. Follow directions for counterweights.
- If possible, keep the deck lowered to the ground while operating on slopes. Raising the deck while operating on slopes can cause the machine to become unstable.

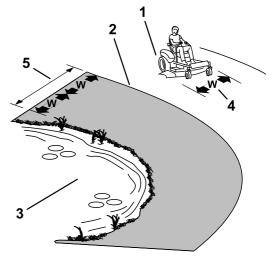


Figure 12

- 1. Safe Zone—use the machine here on slopes less than 15° or flat areas.
- Danger Zone—use a walk-behind mower and/or a hand trimmer on slopes greater than 15° and near drop-offs or water.
- 4. W = Width of the machine

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 Keep a safe distance (twice the width of the machine) between the machine and any hazard.

3. Water

Towing Safety

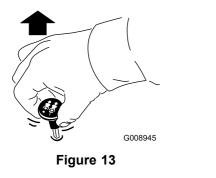
- Do not attach towed equipment except at the hitch point.
- Do not use the machine as a towing vehicle unless it has a hitch installed.
- Do not exceed the weight limits for towed equipment and towing on slopes. The towed weight must not exceed the weight of the machine and operator.
- Never allow children or others near the towed equipment.
- On slopes, the weight of the towed equipment may cause loss of traction, increased risk of rollover, and loss of control. Reduce the towed weight and slow down.

- The stopping distance may increase with the weight of a towed load. Travel slowly and allow extra distance to stop.
- Make wide turns to keep the attachment clear of the machine.

Operating the Mower Blade-Control Switch (PTO)

The blade-control switch (PTO) starts and stops the mower blades and any powered attachments.

Engaging the Blade-Control Switch (PTO)



Note: Always engage the blades with the throttle in the FAST position (Figure 14).

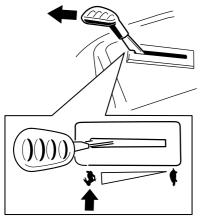
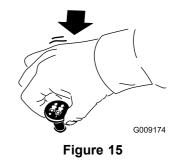


Figure 14

Disengaging the Blade-Control Switch (PTO)

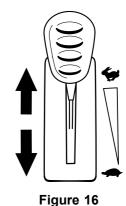


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Operating the Throttle

You can move the throttle control between the FAST and SLOW positions (Figure 16).

Always use the FAST position when engaging the PTO.



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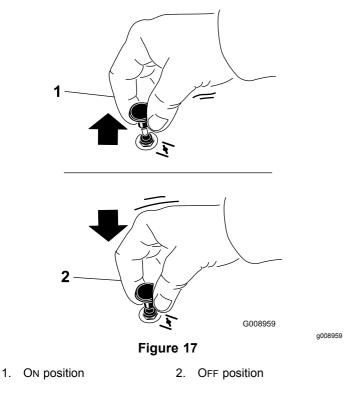
Operating the Choke

Use the choke to start a cold engine.

1. Pull up the choke knob to engage the choke before using the key switch (Figure 17).

Note: Ensure that you fully engage the choke. You may need to hold the knob up when you use the key switch.

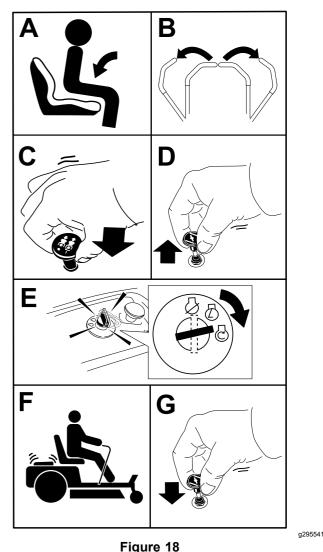
2. Push down the choke to disengage the choke after the engine has started (Figure 17).



Starting the Engine

Note: A warm or hot engine may not require choking.

Important: Do not engage the starter for more than 5 seconds at a time. Engaging the starter motor for more than 5 seconds can damage the starter motor. If the engine fails to start, wait 10 seconds before operating the engine starter again.



Shutting Off the Engine

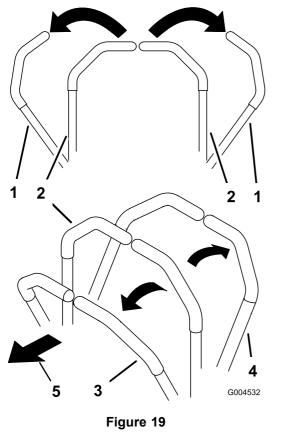
- Disengage the blades by moving the blade-control switch to the OFF position (Figure 15).
- 2. Move the motion-control levers outward to the PARK position.
- 3. Move the throttle control to the FAST position.
- 4. Turn the key to the OFF position and remove the key.

A CAUTION

Children or bystanders may be injured if they move or attempt to operate the machine while it is unattended.

Always remove the key and engage the parking brake when leaving the machine unattended.

Using the Motion-Control Levers



1. Motion-control 4. Backward lever—PARK position

- 2. Center, unlocked position 5. Front of machine
- 3. Forward

Driving the Machine

The drive wheels turn independently, powered by hydraulic motors on each axle. You can turn 1 side in reverse while you turn the other forward, causing the machine to spin rather than turn. This greatly improves the machine maneuverability but may require sometime for you to adapt to how it moves.

The throttle control regulates the engine speed as measured in rpm (revolutions per minute). Place the throttle control in the FAST position for best performance. Always operate in the full throttle position when mowing.

A WARNING

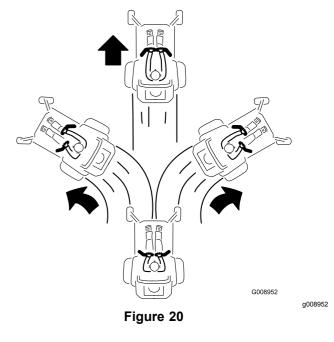
The machine can spin very rapidly. You may lose control of the machine and cause personal injury or damage to the machine.

- Use caution when making turns.
- Slow the machine down before making sharp turns.

Driving Forward

Note: Always use caution when backing up and turning.

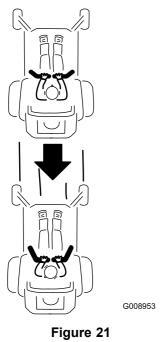
- 1. Move the levers to the center, unlocked position.
- 2. To go forward, slowly push the motion-control levers forward (Figure 20).



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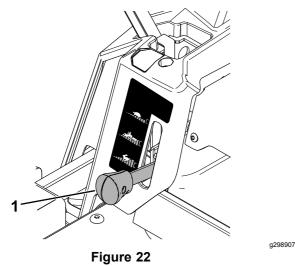
Driving Backward

- 1. Move the levers to the center, unlocked position.
- 2. To go backward, slowly pull the motion-control levers rearward (Figure 21).



Using the Smart Speed™ Control System

The Smart Speed [™] Control-System lever, located below the operating position (Figure 22), gives the operator a choice to drive the machine at 3 ground speed ranges—trim, tow, and mow.



1. Smart-speed lever

To change speeds, do the following:

- 1. Move the motion-control levers to neutral and outward to the PARK position.
- 2. Disengage the blade-control switch.
- 3. Adjust the lever to the desired position.

The following are only recommendations for use. Adjustments vary by grass type, moisture content, and the height of the grass.

Suggested uses:	Trim	Tow	Mow
Parking	Х		
Heavy, wet grass	х		
Training	Х		
Trimming grass	х		
Bagging		Х	
Mulching		Х	
Towing attachments		x	
Normal mowing			Х
Moving the machine			X

Trim

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This is the lowest speed. The suggested uses for this speed are as follows:

- Parking
- Heavy, wet grass mowing conditions
- Training
- Trimming grass

Tow

This is the medium speed. The suggested uses for this speed are as follows:

- Bagging
- Mulching
- Towing attachments

Mow

This is the fastest speed. The suggested uses for this speed are as follows:

- Normal mowing
- Moving the machine

Using the Side Discharge

The mower has a hinged grass deflector that disperses clippings to the side and down toward the turf.

A DANGER

Without a grass deflector, discharge cover, or a complete grass-catcher assembly mounted in place, you and others are exposed to blade contact and thrown debris. Contact with rotating mower blade(s) and thrown debris will cause injury or death.

- Never remove the grass deflector from the mower deck because the grass deflector routes material down toward the turf. If the grass deflector is ever damaged, replace it immediately.
- Never put your hands or feet under the mower deck.
- Never try to clear the discharge area or mower blades unless you move the blade-control switch (PTO) to the OFF position, rotate the key switch to the OFF position, and remove the key from the key switch.
- Make sure that the grass deflector is in the down position.

Adjusting the Height of Cut

The machine is equipped with a foot pedal deck-lift system. You can use the foot pedal to lift the deck briefly to avoid obstacles and to raise the deck.

You can adjust the height of cut from 38 to 114 mm (1-1/2 to 4-1/2 inches) in 6 mm (1/4 inch) increments by moving the height-of-cut pin into different hole locations.

- 1. Push on the deck-lift pedal with your foot to raise the mower deck.
- 2. To adjust, remove the pin from the height-of-cut bracket (Figure 23).
- 3. Select a hole in the height-of-cut system corresponding to the desired height of cut and insert the pin (Figure 23).
- 4. Lower the deck slowly until the lever makes contact with the pin.

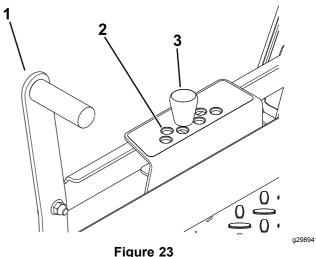


Figure 23

- 1. Deck-lift pedal 3. Pin
- 2. Height-of-cut positions

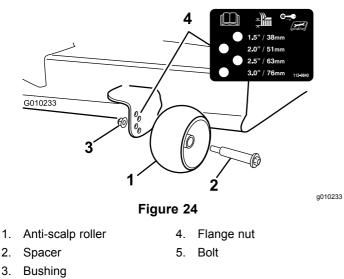
Adjusting the Anti-Scalp Rollers

Whenever you change the height of cut, adjust the height of the anti-scalp rollers.

Note: Adjust the anti-scalp rollers so that the rollers do not touch the ground in normal, flat mowing areas.

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.

3. Adjust the anti-scalp rollers as shown in Figure 24.



Operating Tips

Using the Fast Throttle Setting

For best mowing and maximum air circulation, operate the engine at the FAST position. Air is required to thoroughly cut grass clippings, so do not set the height-of-cut so low as to totally surround the mower deck in uncut grass. Always try to have 1 side of the mower deck free from uncut grass, which allows air to be drawn into the mower deck.

Cutting a Lawn for the First Time

Cut grass slightly longer than normal to ensure that the cutting height of the mower deck does not scalp any uneven ground. However, the cutting height used in the past is generally the best one to use. When cutting grass longer than 15 cm (6 inches) tall, you may want to cut the lawn twice to ensure an acceptable quality of cut.

Cutting a Third of the Grass Blade

It is best to cut only about a third of the grass blade. Cutting more than that is not recommended unless grass is sparse, or it is late fall when grass grows more slowly.

Alternating the Mowing Direction

Alternate the mowing direction to keep the grass standing straight. This also helps disperse clippings, which enhances decomposition and fertilization.

Mowing at Correct Intervals

Grass grows at different rates at different times of the year. To maintain the same cutting height, mow more often in early spring. As the grass growth rate slows in mid summer, mow less frequently. If you cannot mow for an extended period, first mow at a high cutting height, then mow again 2 days later at a lower height setting.

Using a Slower Cutting Speed

To improve cut quality, use a slower ground speed in certain conditions.

Avoiding Cutting Too Low

When mowing uneven turf, raise the cutting height to avoid scalping the turf.

Stopping the Machine

If you must stop the forward motion of the machine while mowing, a clump of grass clippings may drop onto your lawn. To avoid this, move onto a previously cut area with the blades engaged or you can disengage the mower deck while moving forward.

Keeping the Underside of the Mower Deck Clean

Clean clippings and dirt from the underside of the mower deck after each use. If grass and dirt build up inside the mower deck, cutting quality will eventually become unsatisfactory.

Maintaining the Blade(s)

Maintain a sharp blade throughout the cutting season because a sharp blade cuts cleanly without tearing or shredding the grass blades. Tearing and shredding turns grass brown at the edges, which slows growth and increases the chance of disease. Check the mower blades after each use for sharpness, and for any wear or damage. File down any nicks and sharpen the blades as necessary. If a blade is damaged or worn, replace it immediately with a genuine Toro replacement blade.

After Operation

After Operation Safety

General Safety

- Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operator's position. Allow the machine to cool before servicing, adjusting, fueling, cleaning, or storing it.
- Clean grass and debris from the cutting unit, muffler, drives, grass catcher, and engine compartment to help prevent fires. Clean up oil or fuel spills.
- Shut off the fuel and remove the key before storing or transporting the machine.

Pushing the Machine by Hand

Important: Always push the machine by hand. Do not tow the machine, because towing may damage it.

This machine has an electric-brake mechanism, and to push the machine, the key must be in the RUN position. The battery needs to be charged and functioning to disengage the electric brake.

Pushing the Machine

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Locate the bypass levers on the frame on both sides of the engine.
- 4. Move the bypass levers forward through the key hole and down to lock them in place (Figure 25).

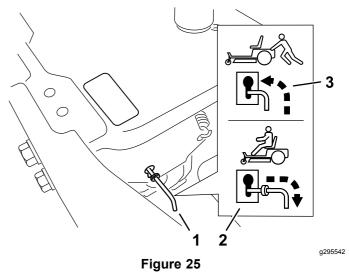
Note: Do this for each lever.

A WARNING

Contact with hot surfaces may cause personal injury.

Keep your hands, feet, face, clothing and other body parts away the engine, muffler and other hot surfaces. Turn the ignition key on and disengage the parking brake by moving 1 motion-control lever out of the PARK position.

Note: Do not start the machine.



- 1. Bypass-lever locations
- 3. Lever position for pushing the machine
- 2. Lever position for operating the machine
- 6. When finished, ensure that the key has been returned to the STOP position to avoid draining the battery charge.

Operating the Machine

Move the bypass levers rearward through the keyhole and down to lock them in place as shown in Figure 25.

Note: Do this for each lever.

Maintenance

Note: Determine the left and right sides of the machine from the normal operating position.

Maintenance Safety

- If you leave the key in the switch, someone could accidently start the engine and seriously injure you or other bystanders. Remove the key from the switch before you perform any maintenance.
- Before you leave the operator's position, do the following:
 - Park the machine on a level surface.
 - Disengage the drives.
 - Engage the parking brake.
 - Shut off the engine and remove the key.
 - Allow machine components to cool before performing maintenance.
- Do not allow untrained personnel to service the machine.
- Keep your hands and feet away from moving parts or hot surfaces. If possible, do not make adjustments with the engine running.
- Carefully release pressure from components with stored energy.
- Check the parking brake operation frequently. Adjust and service it as required.

- Never tamper with safety devices. Check their proper operation regularly.
- Clean grass and debris from the cutting unit, muffler, drives, grass catcher, and engine compartment to prevent fires.
- Clean up oil or fuel spills and remove fuel-soaked debris.
- Do not rely on hydraulic or mechanical jacks to support the machine; support the machine with jack stands whenever you raise the machine.
- Keep all parts in good working condition and all hardware tightened, especially the blade-attachment hardware. Replace all worn or damaged decals.
- Disconnect the battery before repairing the machine. Disconnect the negative terminal first and the positive last. Connect the positive terminal first and the negative last.
- To ensure optimum performance, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure	
After the first 5 hours	Change the engine oil and filter.	
Before each use or daily	 Check the safety-interlock system. Check the air cleaner for dirty, loose, or damaged parts. Check the engine-oil level. Clean the air intake screen. Inspect the blades. Inspect the grass deflector for damage. 	
After each use	Clean the mower-deck housing.	
Every 25 hours	 Grease the caster wheel bearings. Clean the air-cleaner foam element (more often in dusty, dirty conditions). Check tire pressure. Check the belts for wear or cracks. 	
Every 100 hours or yearly, whichever comes first	 Replace the air-cleaner foam element (more often in dusty, dirty conditions). Replace the paper air-cleaner element (more often in dirty or dusty conditions). Change the engine oil and oil filter (more often in dirty or dusty conditions). Check the spark plug(s). Check the in-line fuel filter. 	
Every 200 hours	Replace the spark plug(s).Replace the in-line fuel filter.	

Maintenance Service Interval	Maintenance Procedure
Every 300 hours	Check and adjust the valve clearance. Contact an Authorized Service Dealer.
Before storage	 Charge the battery and disconnect the battery cables. Perform all maintenance procedures listed above before storage. Paint any chipped surfaces.

A CAUTION

If you leave the key in the switch, someone could accidently start the engine and seriously injure you or other bystanders.

Shut off the engine and remove the key from the switch before you perform any maintenance.

Pre-Maintenance Procedures

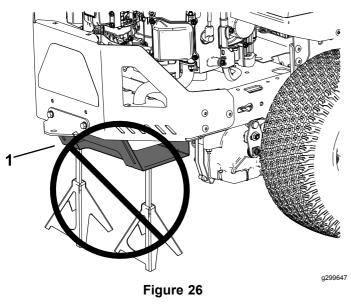
Raising the Machine

Use jackstands to support the machine when you raise it.

A WARNING

Supporting the machine on the lower muffler shield (Figure 26) may damage the shield and cause the machine to fall, injuring you or bystanders.

Do not use the lower muffler shield to support the machine.



1. Lower muffler shield

Lubrication

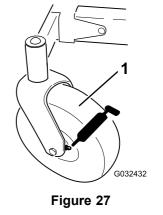
Greasing the Bearings

Service Interval: Every 25 hours—Grease the caster wheel bearings.

Grease Type: No. 2 lithium grease

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Clean the grease fittings (Figure 27) with a rag.

Note: Scrape any paint off the front of the fitting(s).



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- 1. Front caster tire
- 4. Connect a grease gun to each fitting (Figure 27).
- 5. Pump grease into the fittings until grease begins to ooze out of the bearings.
- 6. Wipe up any excess grease.

Engine Maintenance

Engine Safety

- Keep your hands, feet, face, clothing, and other body parts away from the muffler and other hot surfaces. Allow engine components to cool before performing maintenance.
- Do not change the engine governor speed or overspeed the engine.

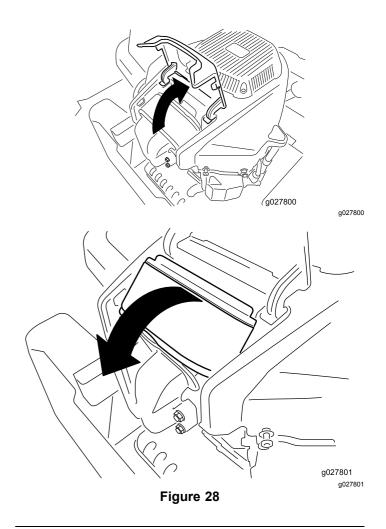
Servicing the Air Cleaner

Service Interval: Before each use or daily

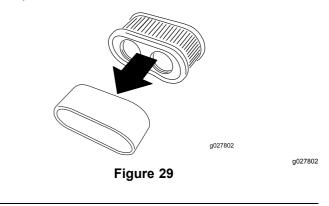
Note: Service the air cleaner more frequently (every few hours) if operating conditions are extremely dusty or sandy.

Removing the Foam and Paper Elements

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Clean around the air-cleaner cover to prevent dirt from getting into the engine and causing damage.
- 4. Lift the cover and rotate the air-cleaner assembly out of the engine (Figure 28).



5. Separate the foam and paper elements (Figure 29).



Servicing the Foam Air-Cleaner Element

Service Interval: Every 25 hours/Monthly (whichever comes first)—Clean the air-cleaner foam element (more often in dusty, dirty conditions).

Every 100 hours or yearly, whichever comes first—Replace the air-cleaner foam element (more often in dusty, dirty conditions).

- 1. Wash the foam element in liquid soap and warm water. When the element is clean, rinse it thoroughly.
- 2. Dry the element by squeezing it in a clean cloth.

Important: Replace the foam element if it is torn or worn.

Servicing the Paper Air-Cleaner Element

Service Interval: Every 100 hours or yearly, whichever comes first—Replace the paper air-cleaner element (more often in dirty or dusty conditions).

1. Clean the paper element by tapping it gently to remove dust.

Note: If it is very dirty, replace the paper element with a new one.

- 2. Inspect the element for tears, an oily film, or damage to the rubber seal.
- 3. Replace the paper element if it is damaged.

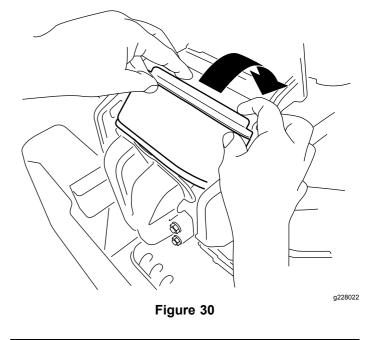
Important: Do not clean the paper filter.

Installing the Air Cleaner

1. Install the foam element over the paper element.

Note: Ensure that you do not damage the elements.

- 2. Align the holes of the filter into the manifold ports.
- 3. Rotate the filter down into the chamber and fully seat it against the manifold (Figure 30).



4. Close the cover.

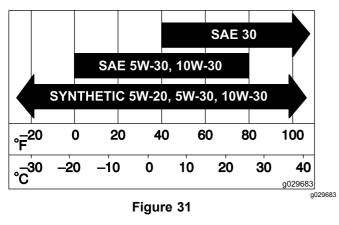
Servicing the Engine Oil

Engine-Oil Specifications

Oil Type: Detergent oil (API service SF, SG, SH, SJ, or SL)

Crankcase Capacity: 2.4 L (81 fl oz) with oil filter

Viscosity: See the table below.



Checking the Engine-Oil Level

Service Interval: Before each use or daily

Note: Check the oil when the engine is cold.

Important: If you overfill or underfill the engine crankcase with oil and run the engine, you may damage the engine.

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.

Note: Ensure that the engine is cool so that the oil has had time to drain into the sump.

3. To keep dirt, grass clippings, etc., out of the engine, clean the area around the oil-fill cap and dipstick before removing it (Figure 32).

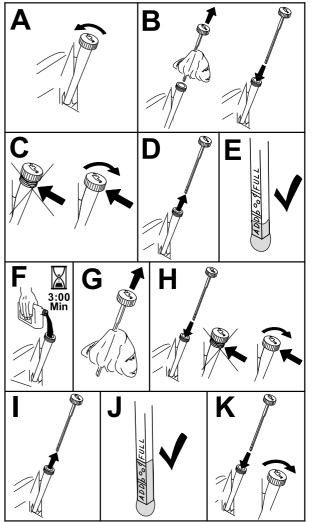


Figure 32

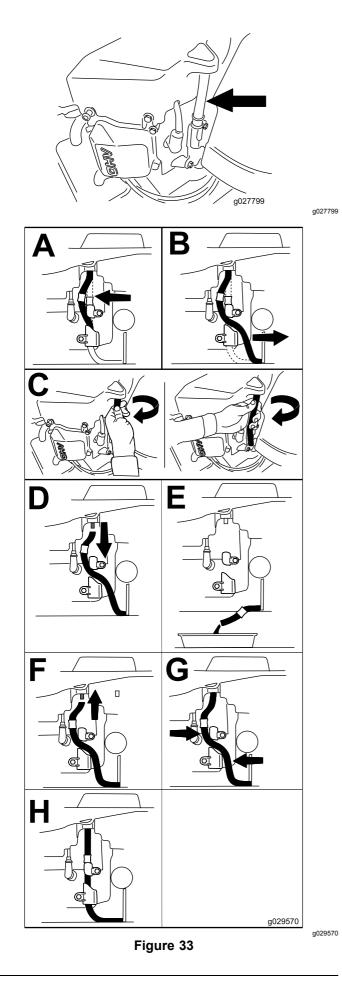
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Changing the Engine Oil and Oil Filter

Service Interval: After the first 5 hours/After the first month (whichever comes first)—Change the engine oil and filter.

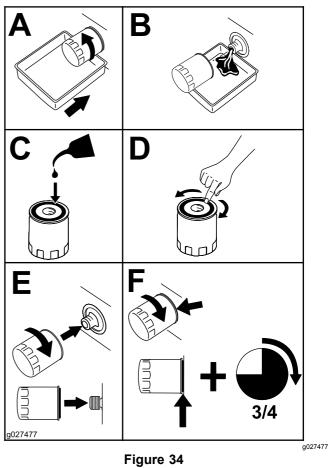
Every 100 hours or yearly, whichever comes first—Change the engine oil and oil filter (more often in dirty or dusty conditions).

- 1. Park the machine on a level surface to ensure that the oil drains completely.
- 2. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 3. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 4. Drain the oil from the engine (Figure 33).



5. Change the engine-oil filter (Figure 34).

Note: Ensure that the oil-filter gasket touches the engine and then turn the filter an extra 3/4 turn.



6. Slowly pour approximately 80% of the specified oil into the filler tube and slowly add the additional oil to bring it to the Full mark (Figure 35).

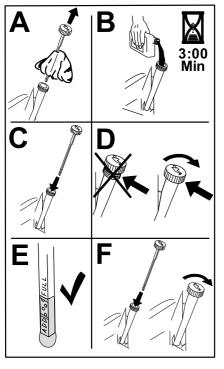


Figure 35

7. Dispose of the used oil at a recycling center.

Servicing the Spark Plug

Service Interval: Every 100 hours or yearly, whichever comes first—Check the spark plug(s).

Every 200 hours/Every 2 years (whichever comes first)—Replace the spark plug(s).

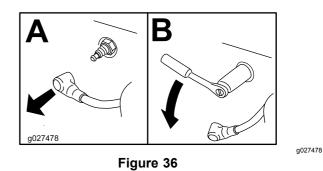
Ensure that the air gap between the center and side electrodes is correct before installing the spark plug. Use a spark plug wrench for removing and installing the spark plug and a gapping tool or feeler gauge to check and adjust the air gap. Install a new spark plug if necessary.

Type: Champion® RN9YC or NGK® BPR6ES

Air gap: 0.76 mm (0.03 inch)

Removing the Spark Plug

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Clean the area around the base of the plug to keep dirt and debris out of the engine.
- 4. Remove the spark plug (Figure 36).



Checking the Spark Plug

Important: Do not clean the spark plug(s). Always replace the spark plug(s) when it has a black coating, worn electrodes, an oily film, or cracks.

If you see light brown or gray on the insulator, the engine is operating properly. A black coating on the insulator usually means the air cleaner is dirty.

Set the gap to 0.75 mm (0.03 inch).

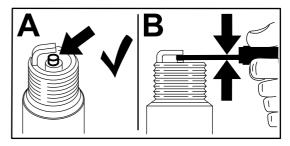


Figure 37

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Installing the Spark Plug

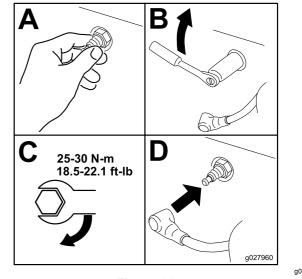


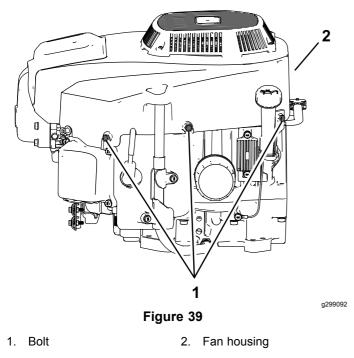
Figure 38

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Cleaning the Cooling System

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Remove the air filter from the engine; refer to Removing the Foam and Paper Elements (page 26).
- 4. Loosen the bolts and remove the fan housing (Figure 39).



- 5. To prevent debris entering the air intake, install the air filter to the filter base.
- 6. Clean debris and grass from the parts.
- 7. Remove the air filter and install the fan housing. Torque the bolts to 8 to 12 N⋅m (71 to 106 in-lb).
- 8. Install the air filter; refer to Installing the Air Cleaner (page 27).

Fuel System Maintenance

A DANGER

In certain conditions, fuel is extremely flammable and highly explosive. A fire or explosion from fuel can burn you and others and can damage property.

Refer to Fuel Safety (page 12) for a complete list of fuel related precautions.

A WARNING

Contact with hot surfaces may cause personal injury.

Keep your hands, feet, face, clothing and other body parts away the engine, muffler and other hot surfaces.

Replacing the In-Line Fuel Filter

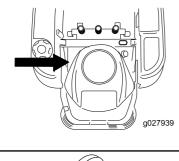
Service Interval: Every 100 hours or yearly, whichever comes first—Check the in-line fuel filter.

Every 200 hours/Every 2 years (whichever comes first)—Replace the in-line fuel filter.

Never install a dirty filter after removing it from the fuel line.

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Replace the filter (Figure 40).

Note: Note: Ensure that the markings on the filter follow the fuel flow direction.



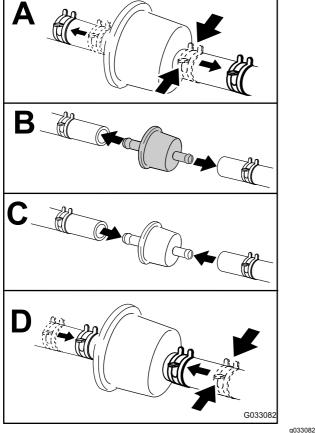


Figure 40

Electrical System Maintenance

Electrical System Safety

- Disconnect the battery before repairing the machine. Disconnect the negative terminal first and the positive last. Connect the positive terminal first and the negative last.
- Charge the battery in an open, well-ventilated area, away from sparks and flames. Unplug the charger before connecting or disconnecting the battery. Wear protective clothing and use insulated tools.

Servicing the Battery

Removing the Battery

A WARNING

Battery terminals or metal tools could short against metal machine components, causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.

- When removing or installing the battery, do not allow the battery terminals to touch any metal parts of the machine.
- Do not allow metal tools to short between the battery terminals and metal parts of the machine.
- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Raise the seat to access the battery.
- 4. Disconnect the negative (black) ground cable from the battery post (Figure 41).

Note: Retain all fasteners.

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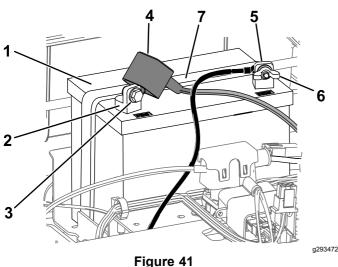
A WARNING

Incorrectly removing the cables from battery could damage the machine and cables, causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.

- Always disconnect the negative (black) battery cable before disconnecting the positive (red) cable.
- Always connect the positive (red) battery cable before connecting the negative (black) cable.
- Slide the rubber cover off the positive (red) 5. cable.
- 6. Disconnect the positive (red) cable from the battery post (Figure 41).

Note: Retain all fasteners.

Remove the battery hold-down (Figure 41), and 7. lift the battery from the battery tray.



Battery 1.

- Positive (+) battery post 2.
- Wing nut, washer, and bolt 6.
- Bolt, washer, and nut 3.
- 4. Terminal boot
- Negative (-) battery post 5.
- Battery hold-down 7.

Charging the Battery

Service Interval: Before storage—Charge the battery and disconnect the battery cables.

- 1. Remove the battery from the chassis; refer to Removing the Battery (page 32).
- 2. Charge the battery for a minimum of 1 hour at 6 to 10 A.

Note: Do not overcharge the battery.

When the battery is fully charged, unplug 3. the charger from the electrical outlet, then disconnect the charger leads from the battery posts (Figure 42).

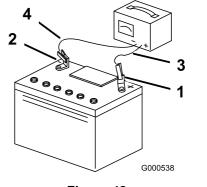


Figure 42

Positive (+) battery post 3. Red (+) charger lead g000538

- Negative (-) battery post 4. Black (-) charger lead 2

Installing the Battery

1.

- Position the battery in the tray (Figure 41). 1.
- 2. Using the fasteners previously removed, install the positive (red) battery cable to the positive (+) battery terminal.
- Using the fasteners previously removed, install 3. the negative battery cable to the negative (-) battery terminal.
- 4. Slide the red terminal boot onto the positive (red) battery post.
- 5. Secure the battery with the hold-down (Figure **41**).
- Lower the seat. 6.

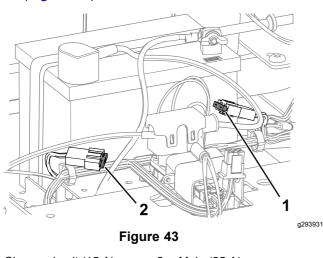
33

Servicing the Fuses

The electrical system is protected by fuses. It requires no maintenance; however, if a fuse blows, check the component/circuit for a malfunction or short.

Fuse type:

- Main—F1 (25 A, blade-type)
- Charge Circuit—F2 (15 A, blade-type)
- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Raise the seat to access the fuses.
- 4. To replace a fuse, pull out the fuse to remove it (Figure 43).



- 1. Charge circuit (15 A) 2. Main (25 A)
- 5. Lower the seat.

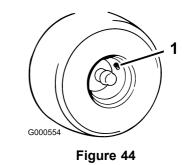
Drive System Maintenance

Checking the Tire Pressure

Service Interval: Every 25 hours—Check tire pressure.

Maintain the air pressure in the front and rear tires as specified. Uneven tire pressure can cause uneven cut. Check the pressure at the valve stem (Figure 44). Check the tires when they are cold to get the most accurate pressure reading.

Inflate the front casters and rear drive wheel tires to 103 kPa (15 psi).



g000554

1. Valve stem

Releasing the Electric Brake

You can manually release the electric brake by rotating the link arms forward. Once the electric brake is energized, the brake resets.

- 1. Turn the key to the OFF position or disconnect the battery.
- 2. Locate the shaft on the electric brake where the brake link arms are connected (Figure 45).
- 3. Rotate the shaft forward to release the brake.

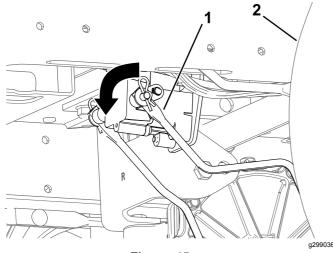


Figure 45

- 1. Brake-link arm on the electric brake control module
- 2. Left, rear tire

Adjusting the Tracking

When driving the machine forward full speed across a flat, level surface, if the machine pulls to 1 side, adjust the tracking.

If the machine pulls to the left, adjust the right motion-control lever; if the machine pulls to the right, adjust the left motion-control lever.

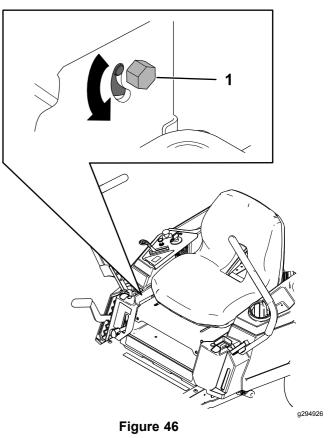
Note: You can only adjust the tracking for driving forward.

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Locate the tracking-adjustment bolt near the motion-control lever on the particular side that needs adjusting (Figure 46).

Note: Raise the seat for easier access to the adjustment bolt.

4. Rotate the bolt to decrease the speed for that particular wheel.

Note: Rotate the bolt a small amount to make minor adjustments.



- 1. Bolt
- 5. Start the machine and drive forward across a flat, level surface with the motion-control levers fully forward to check if the machine tracks straight. Repeat the procedure as needed.

Belt Maintenance

Inspecting the Belts

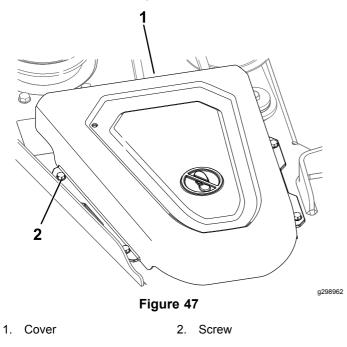
Service Interval: Every 25 hours—Check the belts for wear or cracks.

Replace the belt if it is worn. The signs of a worn belt include squealing while the belt is rotating; the blades slipping while cutting grass; and frayed edges, burn marks, and cracks on the belt.

Replacing the Mower Belt

The signs of a worn belt include squealing while the belt is rotating, blades slipping while cutting grass, and frayed edges, burn marks, and cracks on the belt. Replace the mower belt if any of these conditions are evident.

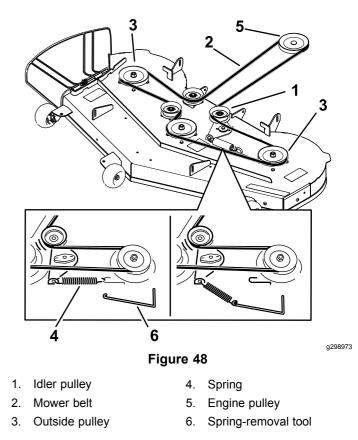
- 1. Park the machine on a level surface, disengage the blade-control switch (PTO), and engage the parking brake.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Set the height of cut at the lowest cutting position (38 mm (1-1/2 inches).
- 4. Remove the pulley covers



5. Using a spring-removal tool (Toro Part No. 92-5771), remove the idler spring from the deck hook to remove tension on the idler pulley and roll the belt off the pulleys (Figure 48).

The spring is under tension when installed and can cause personal injury.

Be careful when removing the belt.



- 6. Route the new belt around the engine pulley and mower pulleys (Figure 48).
- 7. Using a spring-removal tool (Toro Part No. 92-5771), install the idler spring over the deck hook and place tension on the idler pulley and the mower belt (Figure 48).
- 8. Install the pulley covers.

Mower Maintenance

Blade Safety

- Inspect the blades periodically for wear or damage.
- Use care when checking the blades. Wrap the blades or wear gloves, and use caution when servicing the blades. Only replace or sharpen the blades; never straighten or weld them.
- On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.
- Replace worn or damaged blades and bolts in sets to preserve balance.

Servicing the Cutting Blades

To ensure a superior quality of cut, keep the blades sharp. For convenient sharpening and replacement, keep extra blades on hand.

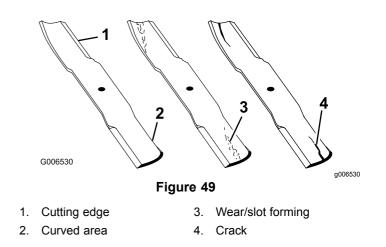
Before Inspecting or Servicing the Blades

- 1. Park the machine on a level surface, disengage the blade-control switch, and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and disconnect the spark-plug wires from the spark plugs.

Inspecting the Blades

Service Interval: Before each use or daily

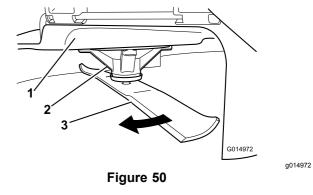
- 1. Inspect the cutting edges (Figure 49).
- 2. If the edges are not sharp or have nicks, remove and sharpen the blade; refer to Sharpening the Blades (page 39).
- 3. Inspect the blades, especially in the curved area.
- 4. If you notice any cracks, wear, or a slot forming in this area, immediately install a new blade (Figure 49).



Checking for Bent Blades

Note: The machine must be on a level surface for the following procedure.

- 1. Raise the mower deck to the highest height-of-cut position.
- 2. While wearing thickly padded gloves, or other adequate hand protection, slowly rotate the blade into a position that allows you to measure the distance between the cutting edge and the level surface the machine is on (Figure 50).



- Deck 3. Blade
- 2. Spindle housing

1.

3. Measure from the tip of the blade to the flat surface (Figure 51).

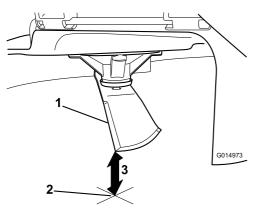


Figure 51

- 1. Blade (in position for measuring)
- 2. Level surface
- 3. Measured distance between blade and the surface (A)
- 4. Rotate the same blade 180 degrees so that the opposing cutting edge is now in the same position (Figure 52).

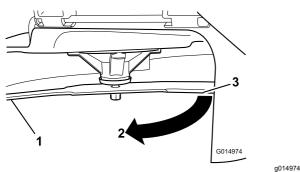
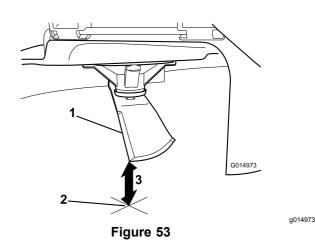


Figure 52

- 1. Blade (side previously measured)
- 2. Measurement (position used previously)
- 3. Opposing side of blade being moved into measurement position
- 5. Measure from the tip of the blade to the flat surface (Figure 53).

Note: The variance should be no more than 3 mm (1/8 inch).



- 1. Opposite blade edge (in position for measuring)
- 2. Level surface

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- 3. Second measured distance between blade and surface (B)
 - A. If the difference between A and B is greater than 3 mm (1/8 inch), replace the blade with a new blade; refer to Removing the Blades (page 38) and Installing the Blades (page 39).

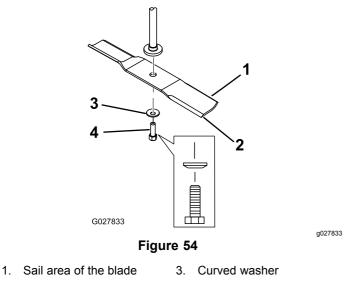
Note: If a bent blade is replaced with a new blade, and the dimension obtained continues to exceed 3 mm (1/8 inch), the blade spindle could be bent. Contact an Authorized Service Dealer for service.

- B. If the variance is within constraints, move to the next blade.
- 6. Repeat this procedure on each blade.

Removing the Blades

Replace the blades if they hit a solid object, or if the blade is out of balance or bent.

- 1. Hold the blade end using a rag or thickly padded glove.
- 2. Remove the blade bolt, curved washer, and blade from the spindle shaft (Figure 54).



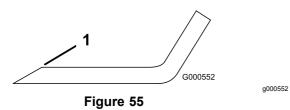
2. Blade 4. Blade bolt

Sharpening the Blades

1. Use a file to sharpen the cutting edge at both ends of the blade (Figure 55).

Note: Maintain the original angle.

Note: The blade retains its balance if the same amount of material is removed from both cutting edges.



- 1. Sharpen at original angle.
- 2. Check the balance of the blade by putting it on a blade balancer (Figure 56).

Note: If the blade stays in a horizontal position, the blade is balanced and can be used.

Note: If the blade is not balanced, file some metal off the end of the sail area only (Figure 55).

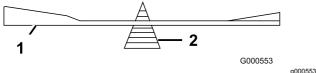


Figure 56

- 1. Blade 2. Balancer
- 3. Repeat this procedure until the blade is balanced.

Installing the Blades

1. Install the blade onto the spindle shaft (Figure 54).

Important: The curved part of the blade must be pointing upward toward the inside of the mower to ensure proper cutting.

- 2. Install the curved washer (cupped side toward the blade) and the blade bolt (Figure 54).
- 3. Torque the blade bolt to 81 to 108 N⋅m (60 to 80 ft-lb).

Leveling the Mower Deck

Check to ensure that the mower deck is level any time you install the mower or when you see an uneven cut on your lawn.

Check the mower deck for bent blades prior to leveling, and remove and replace any bent blades; refer to Checking for Bent Blades (page 37) before continuing.

Level the mower deck side-to-side first; then you can adjust the front-to-rear slope.

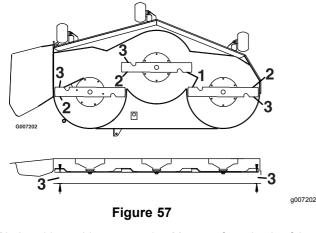
Requirements:

- The machine must be on a level surface.
- All tires must be properly inflated; refer to Checking the Tire Pressure (page 34).

Checking the Side-to-Side Level

- 1. Park the machine on a level surface, disengage the blade-control switch (PTO), and move the motion-control levers outward to the PARK position..
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Set the height of cut to 76 mm (3 inches).
- 4. Carefully rotate the blades side to side.
- 5. Measure between the outside cutting edges and the flat surface (Figure 57).

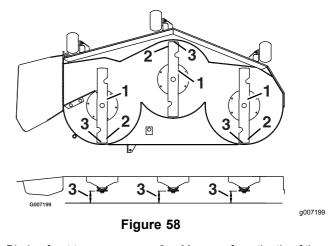
Note: If both measurements are not within 5 mm (3/16 inch), an adjustment is required; refer to Leveling the Mower Deck (page 40).



1. Blades side to side

3. Measure from the tip of the blade to the flat surface here.

2. Outside cutting edges



- 1. Blades front to rear
- 3. Measure from the tip of the blade to the flat surface here.
- 2. Outside cutting edges

Checking the Front-to-Rear Blade Slope

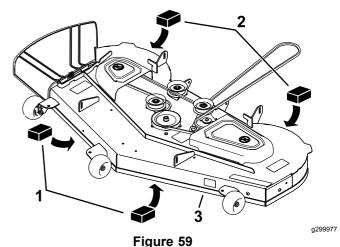
Check the front-to-rear blade level any time you install the mower. If the front of the mower is more than 7.9 mm (5/16 inch) lower than the rear of the mower, adjust the blade level.

- 1. Park the machine on a level surface, disengage the blade-control switch (PTO), and move the motion-control levers outward to the PARK position..
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Set the height of cut to 76 mm (3 inches).
- 4. Carefully rotate the blades so they are facing front to rear (Figure 58).
- 5. Measure from the tip of the front blade to the flat surface and the tip of the rear blade to the flat surface (Figure 58).

Note: If the front blade tip is not 1.6 to 7.9 mm (1/16 to 5/16 inch) lower than the rear blade tip, continue to the Leveling the Mower Deck (page 40) procedure.

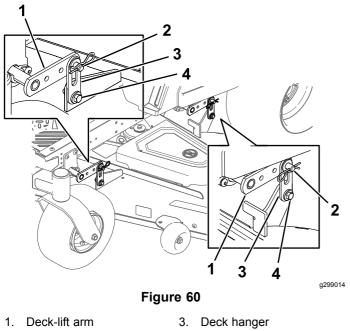
Leveling the Mower Deck

- 1. Set the anti-scalp rollers to the top holes or remove them completely for this procedure; refer to Adjusting the Anti-Scalp Rollers (page 21).
- 2. Set the height-of-cut lever to the 76 mm (3 inch) position; refer to Adjusting the Height of Cut (page 21).
- Place 2 blocks, each having a thickness of 6.6 cm (2-5/8 inches), under each side of the front edge of the deck but not under the anti-scalp roller brackets (Figure 59).
- 4. Place 2 blocks, each having a thickness of 7.3 cm (2-7/8 inches), under the rear edge of the cutting deck skirt, 1 on each side of the cutting deck (Figure 59).



- 1. Wood block—6.6 cm 3. Front edge (2-5/8 inches) thick
- 2. Wood block—7.3 cm (2-7/8 inches) thick

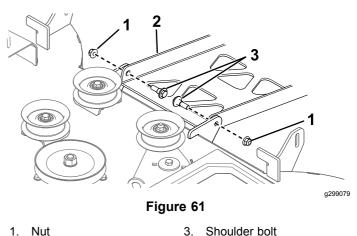
5. Loosen the adjustment bolts on all 4 corners so that the deck is sitting securely on all 4 blocks (Figure 60).



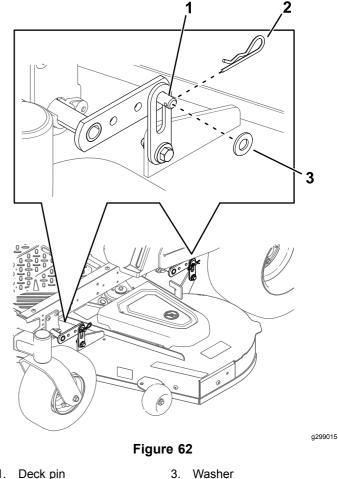
- 2. Deck pin
- 4. Adjustment bolt
- Ensure that the deck pins are at the top of the 6. slot in the deck hangers (Figure 60).
- Tighten the 4 adjustment bolts (Figure 60). 7.
- 8. Ensure that the blocks fit snugly under the deck skirt and that all bolts are tight.
- 9. Verify that the deck is level by checking the side-to-side level and front-to-rear blade slope; repeat the deck leveling procedure if necessary.

Removing the Mower Deck

- Park the machine on a level surface, disengage 1. the blade-control switch (PTO), and move the motion-control levers outward to the PARK position..
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- Lower the height-of-cut lever to the lowest 3. position.
- 4. At the rear of the mower deck, remove the 2 shoulder bolts and nuts securing the deck to the pivot pan (Figure 61).



- 2. Pivot pan
- At all 4 corners of the deck, remove the hairpin 5. cotter and washer from the deck pin (Figure 62).



- 1.
- Hairpin cotter 2.
- 6. Raise the height of cut to the highest position.
- 7. Remove the belt from the clutch pulley on the engine.
- 8. Slide the mower out from underneath the machine.

Note: Retain all parts for future installation.

Installing the Mower

- 1. Park the machine on a level surface, disengage the blade-control switch (PTO), and move the motion-control levers outward to the PARK position..
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Slide the mower under the machine.
- 4. Lower the height-of-cut lever to the lowest position.
- 5. Install the mower belt onto the engine pulley.
- 6. Lift the rear of the mower deck and attach the rear deck hangers to the rear deck pins (Figure 62).
- 7. Attach the front deck hangers to the front deck pins (Figure 62).
- 8. Secure the deck pins with the hairpin cotters and washers removed previously (Figure 62).
- 9. Secure the rear of the deck to the pivot pan using the shoulder bolts and nuts removed previously (Figure 61).

Replacing the Grass Deflector

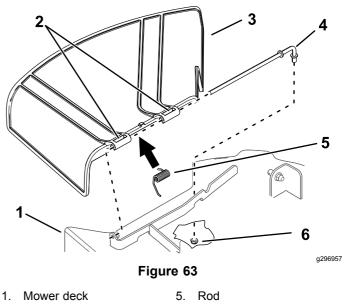
Service Interval: Before each use or daily—Inspect the grass deflector for damage.

A WARNING

An uncovered discharge opening could allow the machine to throw objects toward you or bystanders, resulting in serious injury. Also, contact with the blade could occur.

Never operate the machine without the grass deflector, the discharge cover, or the grass-collection system in place.

1. Remove the nut (3/8 inch) from the rod under the mower (Figure 63).



- 2. Short standoff 6. Spring
- 3. Grass-deflector bracket 7. Nut (3/8 inch)
- 4. Grass deflector
- 2. Slide the rod out of the short stand-off, spring, and grass deflector (Figure 63).
- 3. Remove the damaged or worn grass deflector.
- 4. Install the new grass deflector (Figure 63).
- 5. Slide the straight end of the rod through the rear grass deflector bracket.
- 6. Place the spring on the rod, with end wires down, and between the grass deflector brackets.
- 7. Slide the rod through the second grass-deflector bracket (Figure 63).
- 8. Insert the rod at the front of the grass deflector into the short standoff on the deck.
- 9. Secure the rear end of the rod into the mower with a nut (3/8 inch) as shown in Figure 63.

Important: The grass deflector must be spring-loaded in the down position. Lift the deflector up to test that it snaps into the full-down position.

Cleaning

Washing the Underside of the Mower Deck

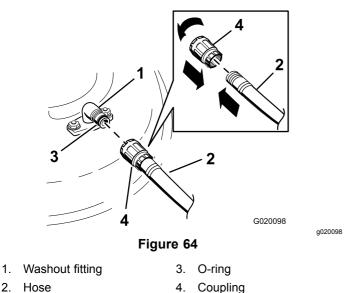
Service Interval: After each use—Clean the mower-deck housing.

Important: You can wash the machine with a mild detergent and water. Do not pressure wash the machine. Avoid excessive use of water, especially near the control panel, under the seat, around the engine, hydraulic pumps, and motors.

Wash the underside of the mower deck after each use to prevent grass buildup for improved mulch action and clipping dispersal.

- 1. Park the machine on a level surface, disengage the blade-control switch (PTO), and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Attach the hose coupling to the end of the mower washout fitting, and turn the water on high (Figure 64).

Note: Spread petroleum jelly on the washout fitting O-ring to make the coupling slide on easier and protect the O-ring.



- 4. Lower the mower to the lowest height-of-cut.
- 5. Sit on the seat and start the engine.
- 6. Engage the blade-control switch and let the mower run for 1 to 3 minutes.

- 7. Disengage the blade-control switch, shut off the engine, remove the key, and wait for all moving parts to stop.
- 8. Turn the water off and remove the coupling from the washout fitting.

Note: If the mower is not clean after 1 washing, soak it and let it stand for 30 minutes. Then repeat the process.

9. Run the mower again for 1 to 3 minutes to remove excess water.

A WARNING

A broken or missing washout fitting could expose you and others to thrown objects or blade contact. Contact with a blade or thrown debris can cause injury or death.

- Replace broken or missing washout fitting immediately, before using machine again.
- Never put your hands or feet under the mower or through openings in the machine.

Disposing of Waste

Engine oil, batteries, hydraulic fluid, and engine coolant are pollutants to the environment. Dispose of these according to your state and local regulations.

Storage

Storage Safety

- Shut off the engine, remove the key, and wait for all moving parts to stop before you leave the operator's position. Allow the machine to cool before adjusting, servicing, cleaning, or storing it.
- Do not store the machine or fuel near flames or drain the fuel indoors or inside an enclosed trailer.
- Do not store the machine or fuel container where there is an open flame, spark, or pilot light, such as on a water heater or on other appliances.

Cleaning and Storage

- 1. Park the machine on a level surface, disengage the blade-control switch (PTO), and move the motion-control levers outward to the PARK position.
- 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 3. Remove grass clippings, dirt, and grime from the external parts of the entire machine, especially the engine and hydraulic system. Clean dirt and chaff from the outside of the engine cylinder-head fins and blower housing.

Important: You can wash the machine with mild detergent and water. Do not pressure-wash the machine. Avoid excessive use of water, especially near the control panel, engine, hydraulic pumps, and motors.

- 4. Check the parking brake operation; refer to Releasing the Electric Brake (page 35).
- 5. Service the air cleaner; refer to Servicing the Air Cleaner (page 26).
- 6. Grease the machine; refer to Lubrication (page 25).
- 7. Change the crankcase oil; refer to Checking the Engine-Oil Level (page 28).
- 8. Check the tire pressure; refer to Checking the Tire Pressure (page 34).
- 9. Charge the battery; refer to Charging the Battery (page 33).
- 10. Scrape any heavy buildup of grass and dirt from the underside of the mower, then wash the machine with a garden hose.

Note: Run the machine with the blade-control switch (PTO) engaged and the engine at high idle for 2 to 5 minutes after washing.

- 11. Check the condition of the blades; refer to Inspecting the Blades (page 37).
- 12. Prepare the machine for storage for over 30 days as follows:
 - A. Add fuel stabilizer/conditioner to fresh fuel in the tank. Follow mixing instructions from the fuel stabilizer manufacturer. Do not use an alcohol-based stabilizer (ethanol or methanol).
 - B. Run the engine to distribute conditioned fuel through the fuel system for 5 minutes.
 - C. Shut off the engine, allow it to cool, and drain the fuel tank using a pump type syphon or operate engine until it shuts off.
 - D. Dispose of fuel properly. Recycle the fuel according to local codes.

Important: Do not store fuel containing stabilizer/conditioner longer than the duration recommended by the fuel-stabilizer manufacturer.

- Remove and check the condition of the spark plug(s); refer to Servicing the Spark Plug (page 30). With the spark plug(s) removed from the engine, pour 30 ml (2 tablespoons) of engine oil into the spark plug hole. Use the starter to crank the engine and distribute the oil inside the cylinder. Install the spark plug(s). Do not install the wire on the spark plug(s).
- 14. Check and tighten all fasteners. Repair or replace any part that is damaged.
- 15. Paint all scratched or bare metal surfaces. Paint is available from your Authorized Service Dealer.
- 16. Store the machine in a clean, dry garage or storage area. Remove the key from the switch and keep it out of reach of children or other unauthorized users. Cover the machine to protect it and keep it clean.

Storing the Battery

- 1. Fully charge the battery.
- 2. Let the battery rest for 24 hours, then check the battery voltage.

Note: If the battery voltage is below 12.6 V, repeat steps 1 and 2.

- 3. Disconnect the cables from the battery.
- 4. Check the voltage periodically to ensure that the voltage is 12.4 V or higher.

Note: If the battery voltage is below 12.4 V, repeat steps 1 and 2.

Battery Storage Tips

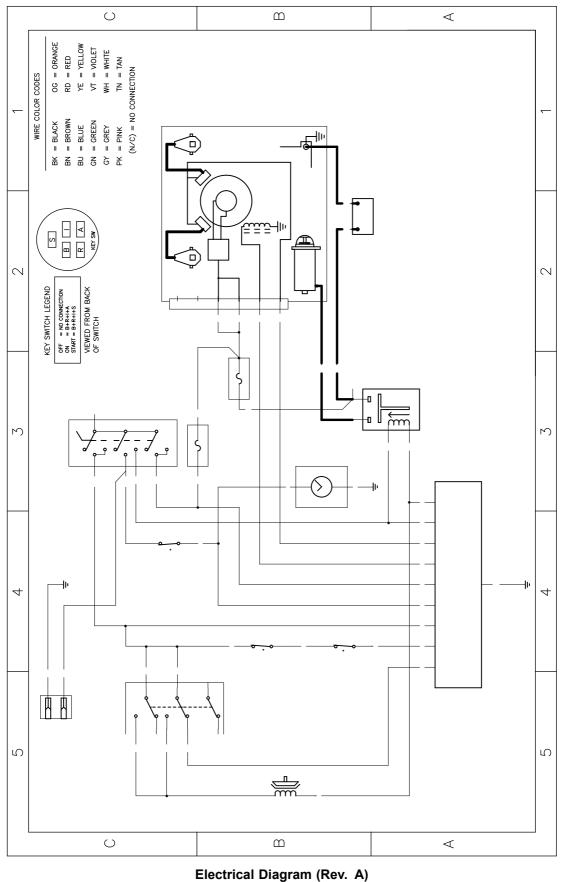
- Store the battery in a cool, dry area in an upright position.
- Do not stack batteries directly on top of each other, unless they are in cartons.
- Do not stack more than 3 batteries (only 2 if the battery type is commercial).
- Test a wet battery every 4 to 6 months and charge it, if necessary.
- Always test and charge the battery before installation.

Troubleshooting

Problem	Possible Cause	Corrective Action
The fuel tank is showing signs of collapsing or the machine is frequently showing signs of running out of fuel.	1. The air-cleaner paper element clogged.	1. Clean the paper element.
The engine overheats.	1. The engine load is excessive.	1. Reduce the ground speed.
	2. The oil level in the crankcase is low.	2. Add oil to the crankcase.
	 The cooling fins and air passages under the engine-blower housing are plugged. 	 Remove the obstruction from the cooling fins and air passages.
	4. The air cleaner is dirty.	 Clean or replace the air-cleaner element.
	5. Dirt, water, or stale fuel is in the fuel system.	5. Contact an Authorized Service Dealer
The starter does not crank.	1. The blade-control switch is engaged.	1. Disengage the blade-control switch.
	 The motion-control levers are not in the PARK position. 	Move the motion-control levers outward to the PARK position.
	3. The battery is dead.	3. Charge the battery.
	 The electrical connections are corroded or loose. 	 Check the electrical connections for good contact.
	5. A fuse is blown.	5. Replace the fuse.
	6. A relay or switch is damaged.	6. Contact an Authorized Service Dealer.
The engine does not start, starts hard, or	1. The fuel tank is empty.	1. Fill the fuel tank.
fails to keep running.	2. The choke (if applicable) is not on.	 Move the choke lever to the ON position.
	3. The air cleaner is dirty.	 Clean or replace the air-cleaner element.
	 The spark-plug wire(s) is loose or disconnected. 	4. Install the wire(s) on the spark plug.
	The spark plug(s) is pitted, fouled, or the gap is incorrect.	 Install a new, correctly gapped spark plug(s).
	6. There is dirt in fuel filter.	6. Replace the fuel filter.
	 Dirt, water, or stale fuel is in fuel system. 	7. Contact an Authorized Service Dealer.
	8. There is incorrect fuel in the fuel tank.	8. Drain the tank and replace the fuel with the proper type.
	9. The oil level in the crankcase is low.	9. Add oil to the crankcase.
The engine loses power.	1. The engine load is excessive.	1. Reduce the ground speed.
	2. The air cleaner is dirty.	2. Clean the air-cleaner element.
	3. The oil level in the crankcase is low.	3. Add oil to the crankcase.
	 The cooling fins and air passages under the engine blower housing are plugged. 	 Remove the obstruction from the cooling fins and air passages.
	 The spark plug(s) is pitted, fouled, or the gap is incorrect. 	 Install a new, correctly gapped spark plug(s).
	6. The fuel-tank vent is blocked.	6. Contact an Authorized Service Dealer.
	7. There is dirt in the fuel filter.	7. Replace the fuel filter.
	 Dirt, water, or stale fuel is in the fuel system. 	8. Contact an Authorized Service Dealer.
	9. There is incorrect fuel in the fuel tank.	9. Contact an Authorized Service Dealer.

Problem	Possible Cause	Corrective Action
The machine does not drive.	1. The bypass valves are open.	1. Close the tow valves.
	2. The traction belts are worn, loose, or broken.	2. Contact an Authorized Service Dealer.
	 The traction belts are off the pulleys. The transmission has failed. 	 Contact an Authorized Service Dealer. Contact an Authorized Service Dealer.
The machine vibrates abnormally.	 The cutting blade(s) is/are bent or unbalanced. 	1. Install new cutting blade(s).
	 The blade mounting bolt is loose. The engine mounting bolts are loose. The engine pulley, idler pulley, or blade pulley is loose. 	 Tighten the blade mounting bolt. Tighten the engine mounting bolts. Tighten the appropriate pulley.
	 5. The engine pulley is damaged. 6. The blade spindle is bent. 7. The motor mount is loose or worn. 	 Contact an Authorized Service Dealer. Contact an Authorized Service Dealer. Contact an Authorized Service Dealer.
The cutting height is uneven.	1. The blade(s) is not sharp.	1. Sharpen the blade(s).
	 A cutting blade(s) is/are bent. The mower is not level. 	 Install a new cutting blade(s). Level the mower from side-to-side and front-to-rear.
	4. An anti-scalp roller (if applicable) is not set correctly.	4. Adjust the anti-scalp wheel height.
	The underside of the mower deck is dirty.	Clean the underside of the mower deck.
	6. The tire pressure is incorrect.7. A blade spindle is bent.	 Adjust the tire pressure. Contact an Authorized Service Dealer.
The blades do not rotate.	1. The drive belt is worn, loose or broken.	1. Install a new drive belt.
	2. The drive belt is off of the pulley.	 Install the drive belt and check the adjusting shafts and belt guides for the correct position.
	 The power-takeoff (PTO) switch or PTO clutch is faulty. 	3. Contact an Authorized Service Dealer.
	4. The mower belt is worn, loose, or broken.	4. Install a new mower belt.

Schematics



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