

55cm Recycler[®] Lawn Mower

Model No. 20955—Serial No. 313000001 and Up Model No. 20956—Serial No. 313000001 and Up

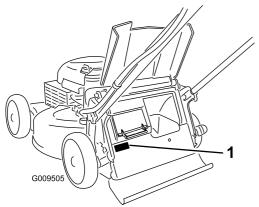
Introduction

This rotary-blade, walk-behind lawn mower is intended to be used by residential homeowners. It is designed primarily for cutting grass on well-maintained lawns on residential properties. It is not designed for cutting brush or for agricultural uses.

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.

You may contact Toro directly at www.Toro.com for product and 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.





1. Model and serial number plate

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

| Model No | | |
|-----------|--|--|
| Serial No | | |

This manual identifies potential hazards and has safety messages identified by the safety alert symbol (Figure 2),

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which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



1. Safety alert symbol

This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

This product complies with all relevant European directives. For details, see the separate product-specific Declaration of Conformity (DOC) sheet.

For models with stated engine horsepower, the gross horsepower of the engine was laboratory rated by the engine manufacturer in accordance with SAE J1940. As configured to meet safety, emission, and operating requirements, the actual engine horsepower on this class of lawn mower will be significantly lower.

Do not tamper with the engine controls or alter the governor speed; doing so may create an unsafe condition resulting in personal injury.

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Safety

Improperly using or maintaining this mower can result in injury. To reduce the potential for injury, comply with these safety instructions.

Toro designed and tested this machine for reasonably safe service; however, failure to comply with the following instructions may result in personal injury.

To ensure maximum safety, best performance, and to gain knowledge of the product, it is essential that you and any other operator of the mower read and understand the contents of this manual before the engine is ever started. Pay particular attention to the safety alert symbol (Figure 2), which means Caution, Warning, or Danger—"personal safety instruction." Read and understand the instruction because it has to do with safety. Failure to comply with the instruction may result in personal injury.

General Lawn Mower Safety

The following instructions have been adapted from EN 836.

This cutting machine is capable of amputating hands and feet and of throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

Training

- Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
- Never allow children or people unfamiliar with these instructions to use the mower. Local regulations can restrict the age of the operator.

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- Understand explanations for all pictograms used on the mower or in the instructions.

Gasoline

WARNING-Gasoline is highly flammable. Take the following precautions.

- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors only and do not smoke while refueling.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add gasoline while the engine is running or when the engine is hot.
- If gasoline is spilled, do not attempt to start the engine but move the mower away from the area of spillage and avoid creating any source of ignition until gasoline vapors have dissipated.
- Replace all fuel tank and container caps securely.

Preparation

- While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wires, bones and other foreign objects.
- Before using, always visually inspect to see that guards, and safety devices, such as deflectors and/or grass catchers, are in place and working correctly.
- Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.

Starting

- Do not tilt the mower when starting the engine unless the mower has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator.
- Start the engine carefully according to instructions and with feet well away from the blade(s) and not in front of the discharge chute.

Operation

- Never mow while people, especially children, or pets are nearby.
- Mow only in daylight or in good artificial light.
- Stay alert for holes in the terrain and other hidden hazards.

- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Never pick up or carry a lawn mower while the engine is running.
- Use extreme caution when reversing or pulling a pedestrian controlled lawn mower towards you.
- Walk, never run.
- Slopes:
 - Do not mow excessively steep slopes.
 - Exercise extreme caution when on slopes.
 - Mow across the face of slopes, never up and down, and exercise extreme caution when changing direction on slopes.
 - Always be sure of your footing on slopes.
- Reduce speed on slopes and in sharp turns to prevent overturning or loss of control.
- Stop the blade if the lawn mower has to be tilted for transportation when crossing surfaces other than grass and when transporting the lawn mower to and from the area to be mowed.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Stop the engine
 - whenever you leave the lawn mower.
 - before refueling.
 - before removing the grass catcher.
 - before making height adjustment unless adjustment can be made from the operator's position.
- Stop the engine and disconnect the spark-plug wire.
 - before clearing blockages or unclogging chute.
 - before checking, cleaning or working on the lawn mower.
 - after striking a foreign object, inspect the lawn mower for damage and make repairs before restarting and operating the lawn mower.
 - if lawn mower starts to vibrate abnormally (check immediately).
- Lightning can cause severe injury or death. If you see lightning or hear thunder in the area, do not operate the machine; seek shelter.
- Watch out for traffic when crossing or near roadways.

Maintenance and Storage

- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- Do not use pressure-cleaning equipment on machine.

- Never store the equipment with gasoline in the tank and inside a building where fumes can reach an open flame or spark.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the engine, silencer, battery compartment and gasoline storage area free of grass, leaves, or excessive grease.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Replace worn or damaged parts for safety.
- Replace faulty silencers.
- If the fuel tank has to be drained, do this outdoors.
- Do not change the engine governor settings or overspeed the engine. Operating an engine at excessive speed can increase the hazard of personal injury.
- Be careful during adjustment of the lawn mower to prevent entrapment of the fingers between moving blades and fixed parts of the lawn mower.
- To ensure the best performance and safety, purchase only genuine Toro replacement parts and accessories. Do not use *will fit* parts and accessories; they may cause a safety hazard.

Sound Pressure

This unit has a sound pressure level at the operator's ear of 89 dBA, which includes an Uncertainty Value (K) of 1 dBA.

The sound pressure level was determined according to the procedures outlined in EN 836.

Sound Power

This unit has a guaranteed sound power level of 98 dBA, which includes an Uncertainty Value (K) of 1 dBA.

The sound power level was determined according to the procedures outlined in ISO 11094.

Hand/Arm Vibration

Measured vibration level for right hand = 3.0 m/s

Measured vibration level for left hand = 5.7 m/s

Uncertainty Value (K) = 2.3 m/s2

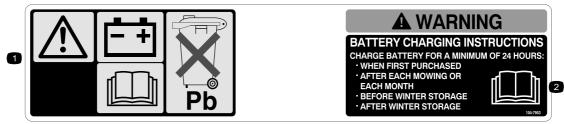
Measured values were determined according to the procedures outlined in EN 836.

Safety and Instructional Decals

Important: Safety and instruction decals are located near areas of potential danger. Replace damaged decals.



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



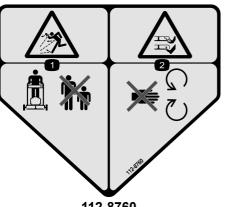
104-7953

1. Lock

- 1. Warning-read the Operator's Manual for information on charging the battery; contains lead; do not discard.
- 2. Read the Operator's Manual.







- 112-8760
- 1. Thrown object hazard—keep bystanders a safe distance from the machine.
- 2. Cutting/dismemberment of hand or foot-stay away from moving parts.

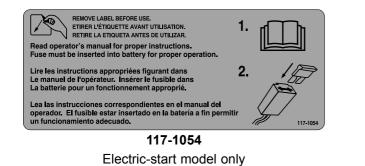


2. Unlock



114-7982

- 1. Warning-read the Operator's Manual.
- Thrown object hazard-keep bystanders a safe distance 2. from the machine.
- Cutting/dismemberment hazard of hand or foot, mower 3. blade-disconnect the spark plug wire and read the instructions before servicing or performing maintenance.
- Cutting/dismemberment hazard of hand or foot, mower 4. blade-stay away from moving parts.
- 5. Cutting/dismemberment hazard of hand or foot, mower blade-do not operate up and down slopes; operate side to side on slopes; stop the engine before leaving the operating position; and look behind you when backing up.



Setup

Important: Remove and discard the protective plastic sheet that covers the engine.



Installing the Handle

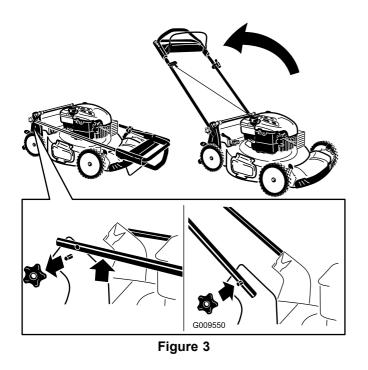
No Parts Required

Procedure

Folding or unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

- Do not damage the cables when folding or unfolding the handle.
- If a cable is damaged, contact an Authorized Service Dealer.
 - 1. Remove the handle knobs from the machine housing (Figure 3).

Important: Route the cables to the outside of the handle knobs as you install the handle.



- 2. Move the handle to the operating position.
- 3. Install and tighten the handle knobs that you removed in step 1.

2

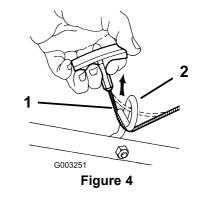
Installing the Recoil-starter Rope in the Rope Guide

No Parts Required

Procedure

Important: You must install the recoil-starter rope in the rope guide.

Hold the blade-control bar to the upper handle and pull the recoil-starter rope through the rope guide on the handle (Figure 4).



1. Recoil-starter rope

2. Rope guide

3 Filling the Engine with Oil

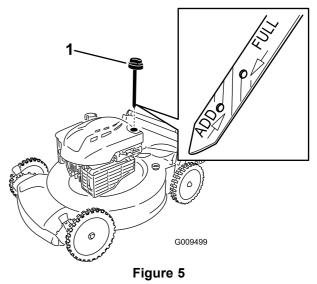
No Parts Required

Procedure

Important: Your machine does not come with oil in the engine. Before starting the engine, fill the engine crankcase with oil.

- 1. Move the machine to a level surface.
- 2. Remove the dipstick (Figure 5) and pour about 3/4 of the crankcase capacity of oil into the oil-fill tube.

Note: Max. fill: 0.59 l (20 fl. oz.), type: SAE 30 detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.



1. Dipstick

- 3. Wipe the dipstick clean with a clean cloth.
- 4. Insert the dipstick fully into the oil-fill tube.

- 5. Remove the dipstick and read the oil level on the dipstick; refer to Figure 5.
 - If the oil is below the **Add** mark on the dipstick, slowly pour a small amount of oil into the oil-fill tube, wait 3 minutes, and then repeat steps 3 through 5 until the oil level is at the **Full** mark on the dipstick.
 - If the oil is above the **Full** mark on the dipstick, drain the excess oil until the oil level is at the **Full** mark on the dipstick. To drain the excess oil, refer to Changing the Engine Oil (page 15).

Important: If the oil level in the crankcase is too low or too high and you run the engine, you may damage the engine.

6. Install the dipstick into the oil-fill tube securely.

Important: Change the engine oil after the first 5 operating hours; change it yearly thereafter. Refer to Changing the Engine Oil (page 15).

4

Charging the Battery

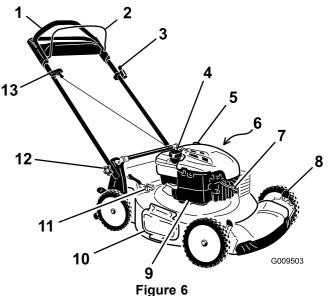
No Parts Required

Procedure

Electric-start model only

Refer to Charging the Battery (page 16).

Product Overview



- 1. Handle
- 2. Blade-control bar
 - 3. Ignition key (electric-start 10. models only)
- Fuel-tank cap
 Oil fill/dipstick
- 11. Bag-on-demand lever

8. Cutting-height lever (4)

Side-discharge deflector

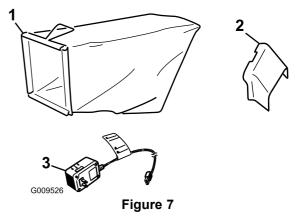
12. Handle knob (2)

Air filter

6. Washout port (not shown) 13. Recoil-start handle

9.

7. Spark plug



- 1. Grass bag
- Battery charger (electric-start models only)
- 2. Side-discharge chute

Specifications

| Model | Weight | Length | Width | Height |
|-------|---------|---------|---------|---------|
| 20955 | 37 kg | 150 cm | 58 cm | 107 cm |
| | (81 lb) | (59 in) | (23 in) | (42 in) |
| 20956 | 40 kg | 150 cm | 58 cm | 107 cm |
| | (88 lb) | (59 in) | (23 in) | (42 in) |

Operation

Filling the Fuel Tank

A DANGER

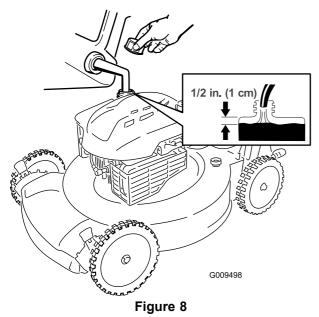
Gasoline is extremely flammable and explosive. A fire or explosion from gasoline can burn you and others.

- To prevent a static charge from igniting the gasoline, place the container and/or machine directly on the ground before filling, not in a vehicle or on an object.
- Fill the tank outdoors when the engine is cold. Wipe up spills.
- Do not handle gasoline when smoking or around an open flame or sparks.
- Store gasoline in an approved fuel container, out of the reach of children.

Fill the fuel tank with fresh unleaded regular gasoline from a major name-brand service station (Figure 8).

Note: Never use methanol, gasoline containing methanol, or gasoline containing more than 10% ethanol because the fuel system could be damaged. Do not mix oil with gasoline.

Important: To reduce starting problems, add fuel stabilizer to the fuel all season, mixing it with gasoline less than 30 days old.

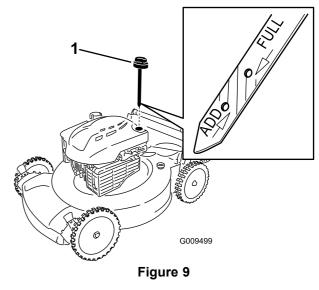


Checking the Engine Oil Level

Service Interval: Before each use or daily

Note: Max. fill: 0.59 l (20 fl. oz.), type: SAE 30 detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.

- 1. Move the machine to a level surface.
- 2. Remove the dipstick (Figure 9).



- 1. Dipstick
- 3. Wipe the dipstick clean with a clean cloth.
- 4. Insert the dipstick fully into the oil-fill tube.
- 5. Remove the dipstick and read the oil level on the dipstick; refer to Figure 9.
 - If the oil is below the **Add** mark on the dipstick, slowly pour a small amount of oil into the oil-fill tube, wait 3 minutes, and then repeat steps 3 through 5 until the oil level is at the **Full** mark on the dipstick.
 - If the oil is above the **Full** mark on the dipstick, drain the excess oil until the oil level is at the **Full** mark on the dipstick. To drain the excess oil, refer to Changing the Engine Oil (page 15).

Important: If the oil level in the crankcase is too low or too high and you run the engine, you may damage the engine.

6. Install the dipstick into the oil-fill tube securely.

Adjusting the Cutting Height

A WARNING

Adjusting the cutting height may bring you into contact with the moving blade, causing serious injury.

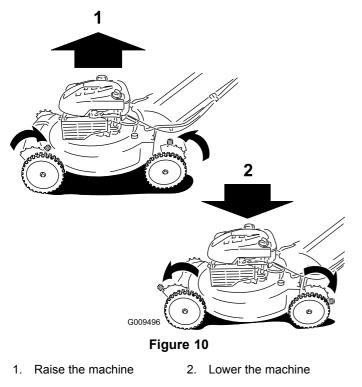
- Stop the engine and wait for all moving parts to stop.
- Do not put your fingers under the housing when adjusting the cutting height.

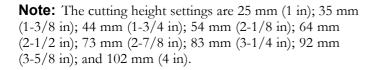
ACAUTION

If the engine has been running, the muffler will be hot and can severely burn you. Keep away from the hot muffler.

Adjust the cutting height as desired. Set the front wheels to the same height as the rear wheels (Figure 10).

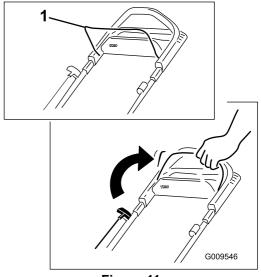
Note: To raise the machine, move the front cutting-height levers rearward and the rear cutting-height levers forward. To lower the machine, move the front cutting-height levers forward and the rear cutting-height levers rearward.





Starting the Engine

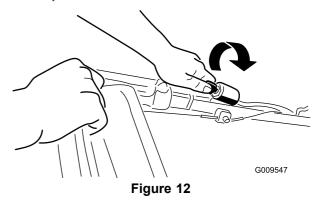
1. Hold the blade-control bar against the handle (Figure 11).

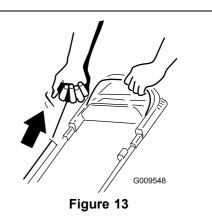




- 1. Blade-control bar
- 2. Turn the ignition key (Figure 12) (electric-start models only) or pull the recoil-start handle (Figure 13).

Note: When you pull the recoil-start handle, pull it lightly until you feel resistance, then pull it sharply (Figure 13). Allow the rope to return to the handle slowly.

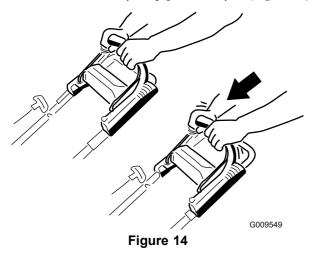




Note: If the machine does not start after several attempts, contact an Authorized Service Dealer.

Using the Self-propel Drive

To operate the self-propel drive, simply walk with your hands on the upper handle and your elbows at your sides, and the machine will automatically keep pace with you (Figure 14).



Note: If the machine does not freely roll backward after self-propelling, stop walking, hold your hands in place, and allow the machine to roll a couple of inches (centimeters) forward to disengage the wheel drive. You can also try reaching just under the upper handle to the metal handle and push the machine forward a couple of inches (centimeters). If the machine still does not roll backward easily, contact an Authorized Service Dealer.

Stopping the Engine

To stop the engine, release the blade-control bar.

Note: Remove the ignition key when you leave the machine (electric-start model only).

Important: When you release the blade-control bar, both the engine and blade should stop within 3 seconds. If they do not stop properly, stop using your machine immediately and contact an Authorized Service Dealer.

Recycling the Clippings

Your machine comes from the factory ready to recycle the grass and leaf clippings back into the lawn.

If the grass bag is on the machine and the bag-on-demand lever is in the bagging position, move the lever to the recycling position; refer to Operating the Bag-on-Demand Lever (page 11) before recycling the clippings. If the side-discharge chute is on the machine, remove it; refer to Removing the Side-discharge Chute (page 12) before recycling the clippings.

Bagging the Clippings

Use the grass bag when you want to collect grass and leaf clippings from the lawn.

A WARNING

A worn grass bag could allow small stones and other similar debris to be thrown in the operator's or bystander's direction and result in serious personal injury or death to the operator or bystanders.

Check the grass bag frequently. If it is damaged, install a new Toro replacement bag.

If the side-discharge chute is on the machine, remove it; refer to Removing the Side-discharge Chute (page 12) before bagging the clippings. If the bag-on-demand lever is in the recycling position, move it to the bagging position; refer to Operating the Bag-on-Demand Lever (page 11).

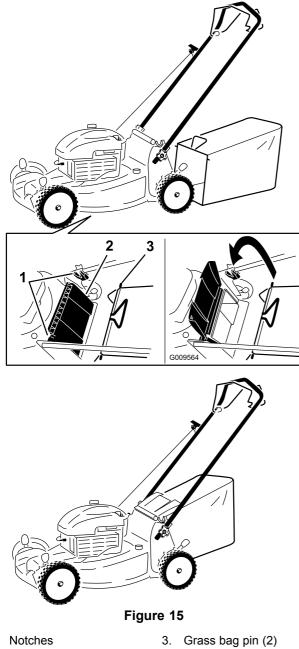
A WARNING

The blade is sharp; contacting the blade can result in serious personal injury.

Stop the engine and wait for all moving parts to stop before leaving the operating position.

Installing the Grass Bag

1. Raise and hold up the rear deflector (Figure 15).



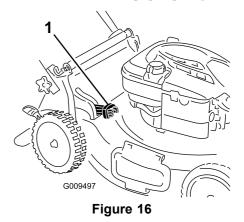
- Notches
 Rear deflector
- 2. Install the grass bag, ensuring that the pins on the bag rest in the notches on the handle (Figure 15).
- 3. Lower the rear deflector.

Removing the Grass Bag

To remove the bag, reverse the steps above.

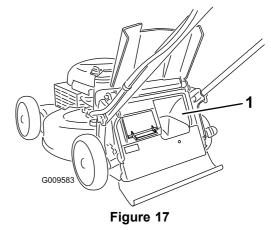
Operating the Bag-on-Demand Lever

The bag-on-demand feature allows you to either collect or recycle grass and leaf clippings while the grass bag is attached to the machine. • For bagging the grass and leaf clippings, press the button on the bag-on-demand lever, and move the lever forward until the button on the lever pops up (Figure 16).



- 1. Bag-on-demand lever (in bagging position)
- For recycling the grass and leaf clippings, press the button on the lever and move the lever rearward until the button on the lever pops up.

Important: For proper operation, remove any grass clippings and debris from the bag-on-demand door and the surrounding opening (Figure 17) before you move the bag-on-demand lever from one position to another.



1. Clean here

The blade is sharp; contacting the blade can result in serious personal injury. Also, an open rear discharge area could allow small stones and other similar debris to be thrown in the operator's or bystander's direction and result in serious personal injury or death to the operator or bystanders.

Stop the engine and wait for all moving parts to stop before cleaning the bag-on-demand door and the surrounding opening.

Side-discharging the Clippings

Use the side discharge for cutting very tall grass.

If the grass bag is on the machine and the bag-on-demand lever is in the bagging position, move the lever to the recycling position; refer to Operating the Bag-on-Demand Lever (page 11).

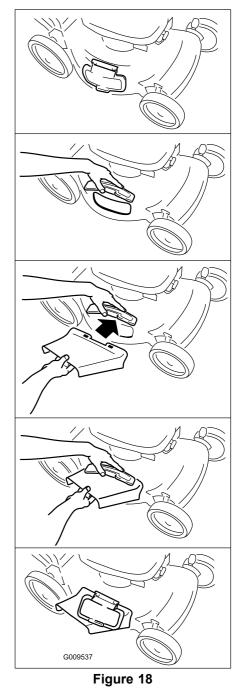
A WARNING

The blade is sharp; contacting the blade can result in serious personal injury.

Stop the engine and wait for all moving parts to stop before leaving the operating position.

Installing the Side-discharge Chute

Lift up the side deflector and install the side-discharge chute (Figure 18).



Removing the Side-discharge Chute

To remove the side-discharge chute, lift up the side deflector, remove the side-discharge chute, and lower the side-discharge deflector.

Operating Tips

General Mowing Tips

- Clear the area of sticks, stones, wire, branches, and other debris that the blade could hit.
- Avoid striking solid objects with the blade. Never deliberately mow over any object.
- If the machine strikes an object or starts to vibrate, immediately stop the engine, disconnect the wire from the spark plug, and examine the machine for damage.
- For best performance, install a new blade before the cutting season begins.
- Replace the blade when necessary with a Toro replacement blade.

Cutting Grass

- Cut only about a third of the grass blade at a time. Do not cut below the 54 mm (2-1/8 in) setting unless the grass is sparse or it is late fall when grass growth begins to slow down. Refer to Adjusting the Cutting Height (page 9).
- When cutting grass over 15 cm (6 in) tall, mow at the highest cutting height setting and walk slower; then mow again at a lower setting for the best lawn appearance. If the grass is too long, the machine may plug and cause the engine to stall.
- Mow only dry grass or leaves. Wet grass and leaves tend to clump on the yard and can cause the machine to plug or the engine to stall.

A WARNING

Wet grass or leaves can cause serious injury if you slip and contact the blade. Mow only in dry conditions.

- Be aware of a potential fire hazard in very dry conditions, follow all local fire warnings, and keep the machine free of dry grass and leaf debris.
- Alternate the mowing direction. This helps disperse the clippings over the lawn for even fertilization.
- If the finished lawn appearance is unsatisfactory, try one or more of the following:
 - Replace the blade or have it sharpened.
 - Walk at a slower pace while mowing.
 - Raise the cutting height on your machine.
 - Cut the grass more frequently.
 - Overlap cutting swaths instead of cutting a full swath with each pass.
 - Set the cutting height on the front wheels one notch lower than the rear wheels. For example, set the front wheels at 54 mm (2-1/8-in) and the rear wheels at 64 mm (2-1/2 in).

Cutting Leaves

- After cutting the lawn, ensure that half of the lawn shows through the cut leaf cover. You may need to make more than one pass over the leaves.
- If there are more than 13 cm (5 in) of leaves on the lawn, set the front cutting height one or two notches higher than the rear cutting height.
- Slow down your mowing speed if the machine does not cut the leaves finely enough.

Maintenance

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

Recommended Maintenance Schedule(s)

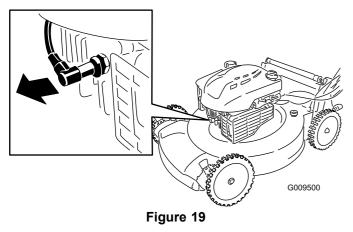
| Maintenance Service Interval | Maintenance Procedure | |
|---|---|--|
| After the first 5 hours | Change the engine oil. | |
| Before each use or daily | Check the engine oil level. Ensure that the engine stops within 3 seconds after releasing the blade-control bar. Clean grass clippings and dirt from under the machine housing. | |
| Every 25 hours | Replace the air filter; replace it more frequently in dusty operating conditions. Charge the battery for 24 hours (electric-start model only). | |
| Before storage | Empty the fuel tank before repairs as directed and before annual storage. | |
| Change the engine oil. Replace the blade or have it sharpened (more frequently if the edge dulls que Clean the air-cooling system; clean it more frequently in dusty operating con Refer to your engine operator's manual. Refer to your engine operator's manual for any additional yearly maintenance procedures. | | |

Important: Refer to your engine operator's manual for additional maintenance procedures.

Note: Replacement parts are available from an Authorized Service Dealer (go to www.toro.com to find the nearest dealer) or at www.shoptoro.com.

Preparing for Maintenance

- 1. Stop the engine and wait for all moving parts to stop.
- 2. Disconnect the spark-plug wire from the spark plug (Figure 19) before performing any maintenance procedure.



hand fuel pump to remove the fuel. Always tip the machine onto its side, with the air filter up.

A WARNING

Tipping the machine may cause the fuel to leak. Gasoline is flammable, explosive and can cause personal injury.

Run the engine dry or remove the gasoline with a hand pump; never siphon.

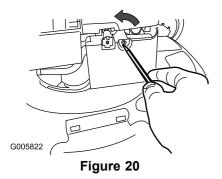
3. After performing the maintenance procedure(s), connect the spark-plug wire to the spark plug.

Important: Before tipping the machine to change the oil or replace the blade, allow the fuel tank to run dry through normal usage. If you must tip the machine prior to running out of fuel, use a

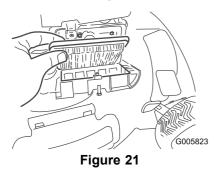
Replacing the Air Filter

Service Interval: Every 25 hours

1. Use a screw driver to open the air-filter cover (Figure 20).



2. Replace the air filter (Figure 21).



3. Install the cover.

Changing the Engine Oil

Service Interval: After the first 5 hours

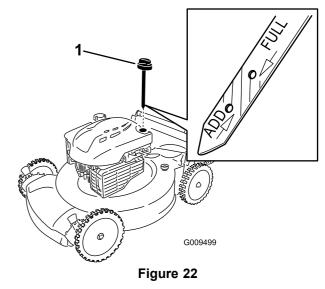
Yearly

Note: Max. fill: 0.59 l (20 fl. oz.), type: SAE 30 detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.

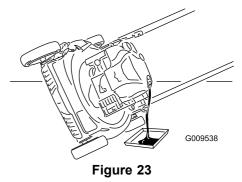
- 1. Move the machine to a level surface.
- 2. Ensure that the fuel tank contains little or no fuel so that fuel does not leak out when you tip the machine onto its side.
- 3. Run the engine a few minutes before changing the oil to warm it.

Note: Warm oil flows better and carries more contaminants.

- 4. Disconnect the wire from the spark plug; refer to Preparing for Maintenance (page 14).
- 5. Place an oil drain pan beside the machine on the side nearest to the oil-fill tube.
- 6. Remove the dipstick from the oil-fill tube (Figure 22).



- 1. Dipstick
- 7. Tip the machine onto its side, with the oil-fill tube down, to drain the used oil through the oil-fill tube into the oil-drain pan (Figure 23).



- 8. After draining the used oil, return the machine to the operating position.
- 9. Pour about 3/4 of the crankcase capacity of oil in the crankcase.

Note: Max. fill: 0.59 l (20 fl. oz.), type: SAE 30 detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.

- 10. Wait 3 minutes for the oil to settle.
- 11. Wipe the dipstick clean with a clean cloth.
- 12. Insert the dipstick fully into the oil-fill tube.
- 13. Remove the dipstick and read the oil level on the dipstick.
 - If the oil is below the **Add** mark on the dipstick, slowly pour a small amount of oil into the oil-fill tube, wait 3 minutes, and then repeat steps 11 through 13 until the oil level is at the **Full** mark on the dipstick.
 - If the oil is above the **Full** mark on the dipstick, drain the excess oil until the oil level is at the **Full** mark on the dipstick.

Important: If the oil level in the crankcase is too low or too high and you run the engine, you may damage the engine.

- 14. Install the dipstick into the oil-fill tube securely.
- 15. Dispose of the used oil properly at a local recycling center.

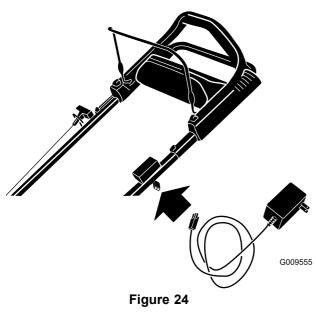
Charging the Battery

Service Interval: Every 25 hours

Electric-start model only

Charge the battery for 24 hours initially, then monthly (every 25 starts) or as needed. Always use the charger in a sheltered area and charge the battery at room temperature (70° or 22° C) whenever possible.

1. Connect the charger to the wire harness located below the ignition key (Figure 24).



2. Plug the charger into a wall outlet.

Note: When the battery no longer holds a charge, recycle or dispose of the lead-acid battery according to local codes.

Note: Your battery charger may have a 2-color LED display that indicates the following states of charging:

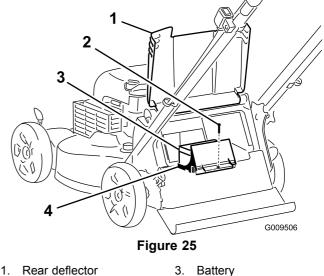
- A red light indicates that the charger is charging the battery.
- A green light indicates that the charger is fully charged or the charger is disconnected from the battery.
- A flashing light that alternates between red and green indicates that the battery is nearly fully charged. This state lasts only a few minutes until the battery is fully charged.

Replacing the Fuse

Electric-start model only

If the battery does not charge or the engine does not run with the electric starter, the fuse may be blown. Replace it with a 40-amp plug-in type fuse.

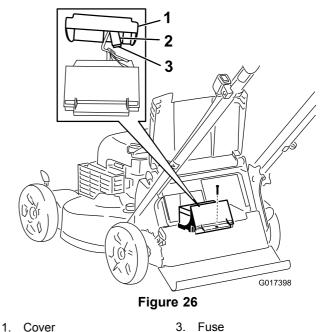
1. Raise the rear deflector and locate the battery compartment (Figure 25).



2. Screw

4. Battery compartment

- 2. Wipe away any debris from the battery compartment area.
- 3. Remove the screw that secures the battery compartment, pull out the battery, and locate the fuse (Figure 26).



2. Fuse holder

4. Replace the fuse in the fuse holder (Figure 26).

Note: Your machine comes with a spare fuse in the battery compartment.

- 5. Install the battery compartment with the screw that you removed in step 3.
- 6. Install the cover over the battery compartment.
- 7. Lower the rear deflector.

Replacing the Blade

Service Interval: Yearly

Important: You will need a torque wrench to install the blade properly. If you do not have a torque wrench or are uncomfortable performing this procedure, contact an Authorized Service Dealer.

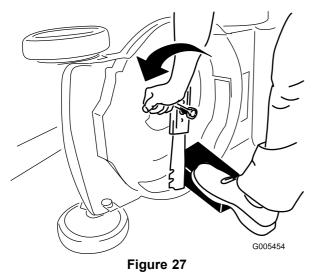
Examine the blade whenever you run out of gasoline. If the blade is damaged or cracked, replace it immediately. If the blade edge is dull or nicked, have it sharpened and balanced, or replace it.

A WARNING

The blade is sharp; contacting the blade can result in serious personal injury.

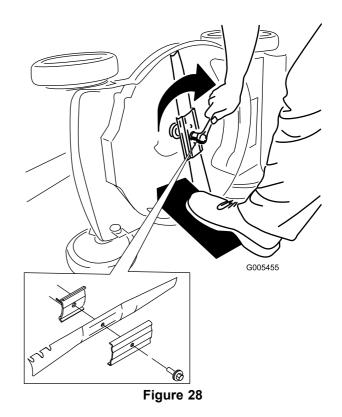
Wear gloves when servicing the blade.

- 1. Refer to Preparing for Maintenance.
- 2. Tip the machine onto its side with the air filter up.
- 3. Use a block of wood to hold the blade steady (Figure 27).



4. Remove the blade, saving all mounting hardware (Figure 27).

5. Install the new blade and all mounting hardware (Figure 28).



Important: Position the curved ends of the blade to point toward the machine housing.

6. Use a torque wrench to tighten the blade bolt to 82 N-m (60 ft-lb).

Important: A bolt torqued to 82 N-m (60 ft-lb) is very tight. While holding the blade with a block of wood, put your weight behind the ratchet or wrench and tighten the bolt securely. This bolt is very difficult to overtighten.

Adjusting the Self-propel Drive Cable

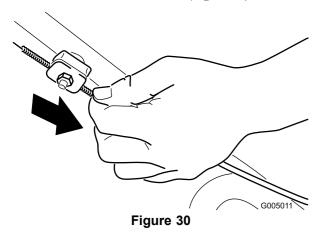
Whenever you install a new self-propel cable or if the self-propel drive is out of adjustment, adjust the self-propel drive cable.

1. Loosen the cable-support nut (Figure 29).



Figure 29 This figure is simplified for the purpose of clarity.

2. Pull down the cable jacket (toward the machine) until there is no slack in the cable (Figure 30).



3. Tighten the nut on the cable support.

Cleaning under the Machine Housing

Service Interval: Before each use or daily

A WARNING

The machine may dislodge material from under the machine housing.

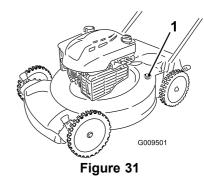
- Wear eye protection.
- Stay in the operating position (behind the handle) when the engine is running.
- Do not allow bystanders in the area.

For best results, clean under the machine housing soon after you have completed mowing.

- 1. Lower the machine to its lowest cutting-height setting; refer to Adjusting the Cutting Height (page 9).
- 2. Move the machine onto a flat paved surface.
- 3. Wash out the area under the rear deflector where the clippings go from the housing to the grass bag.

Note: Wash out the area with the bag-on-demand in both the fully forward and fully rearward positions.

4. Attach a garden hose that is connected to a water supply to the washout port on the machine housing (Figure 31).



- 1. Washout port
- 5. Turn the water on.
- 6. Start the engine and run it until no more clippings come out from under the machine housing.
- 7. Stop the engine.
- 8. Shut off the water and disconnect the garden hose from the machine.
- 9. Start the engine and run it for a few minutes to dry the housing to prevent it from rusting.
- 10. Allow the engine to cool before storing the machine in an enclosed area.

Storage

Store the machine in a cool, clean, dry place.

Preparing the Machine for Storage

A WARNING

Gasoline vapors can explode.

- Do not store gasoline more than 30 days.
- Do not store the machine in an enclosure near an open flame.
- Allow the engine to cool before storing it.
- 1. On the last refueling of the year, add fuel stabilizer to the fuel as directed by the engine manufacturer.
- 2. Dispose of any unused fuel properly. Recycle it according to local codes, or use it in your automobile.

Note: Old fuel in the fuel tank is the leading cause of hard starting. Do not store fuel without stabilizer more than 30 days, and do not store stabilized fuel more than 90 days.

- 3. Run the machine until the engine stops from running out of fuel.
- 4. Start the engine again.
- 5. Allow the engine to run until it stops. When you can no longer start the engine, it is sufficiently dry.
- 6. Disconnect the wire from the spark plug.
- 7. Remove the spark plug, add 30 ml (1 oz.) of oil through the spark plug hole, and pull the starter rope slowly several times to distribute oil throughout the cylinder to prevent cylinder corrosion during the off-season.
- 8. Loosely install the spark plug.
- 9. Tighten all nuts, bolts, and screws.
- 10. Charge the battery for 24 hours, then unplug the battery charger an store the machine in an unheated area. If you must store the machine in a heated area, you must charge the battery every 90 days (electric-start model only).

Folding the Handle

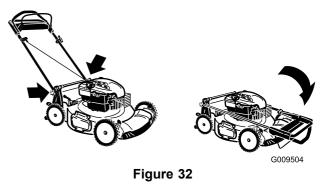
A WARNING

Folding or unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

- Do not damage the cables when folding or unfolding the handle.
- If a cable is damaged, contact an Authorized Service Dealer.

- 1. Remove the ignition key (electric-start model only).
- 2. Loosen the handle knobs until you can move the upper handle freely.
- 3. Fold the upper handle forward as shown in Figure 32.

Important: Route the cables to the outside of the handle knobs as you fold the handle.



4. To unfold the handle, reverse the steps above.

Removing the Machine from Storage

- 1. Charge the battery for 24 hours (electric-start model only).
- 2. Check and tighten all fasteners.
- 3. Remove the spark plug and spin the engine rapidly using the starter to blow excess oil from the cylinder.
- 4. Install the spark plug and tighten it with a torque wrench to 15 ft-lb (20 N-m).
- 5. Perform any needed maintenance procedures; refer to Maintenance (page 14).
- 6. Check the engine oil level; refer to Checking the Engine Oil Level (page 8).
- 7. Fuel the fuel tank with fresh gasoline; refer to Filling the Fuel Tank (page 8).
- 8. Connect the wire to the spark plug.

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International Distributor List

| Distributor: Atlantis Su ve Sulama Sisstemleri Lt Balama Prima Engineering Equip. B-Ray Corporation Casco Sales Company Ceres S.A. CSSC Turf Equipment (pvt) Ltd. Cyril Johnston & Co. Equiver Femco S.A. G.Y.K. Company Ltd. Geomechaniki of Athens Guandong Golden Star Hako Ground and Garden Hako Ground and Garden Hayter Limited (U.K.) Hydroturf Int. Co Dubai | Country: Turkey Hong Kong Korea Puerto Rico Costa Rica Sri Lanka Northern Ireland Mexico Guatemala Japan Greece China Sweden Norway United Kingdom | Phone Number: 90 216 344 86 74 852 2155 2163 82 32 551 2076 787 788 8383 506 239 1138 94 11 2746100 44 2890 813 121 52 55 539 95444 502 442 3277 81 726 325 861 30 10 935 0054 86 20 876 51338 46 35 10 0000 47 22 90 7760 44 1279 723 444 97 14 347 9479 | Distributor: Maquiver S.A. Maruyama Mfg. Co. Inc. Agrolanc Kft Mountfield a.s. Munditol S.A. Oslinger Turf Equipment SA Oy Hako Ground and Garden Ab Parkland Products Ltd. Prato Verde S.p.A. Prochaska & Cie RT Cohen 2004 Ltd. Riversa Sc Svend Carlsen A/S Solvert S.A.S. Spypros Stavrinides Limited Surge Systems India Limited | Argentina Ecuador | Phone Number: 57 1 236 4079 81 3 3252 2285 36 27 539 640 420 255 704 220 54 11 4 821 9999 593 4 239 6970 358 987 00733 64 3 34 93760 39 049 9128 128 43 1 278 5100 972 986 17979 34 9 52 83 7500 45 66 109 200 33 1 30 81 77 00 357 22 434131 91 1 292299901 |
|---|---|---|---|----------------------|--|
| Hako Ground and Garden | Norway | 47 22 90 7760 | Solvert S.A.S. | France | 33 1 30 81 77 00 |
| Hayter Limited (U.K.) | United Kingdom | 44 1279 723 444 | Spypros Stavrinides Limited | Cyprus | 357 22 434131 |

European Privacy Notice

The Information Toro Collects

Toro Warranty Company (Toro) respects your privacy. In order to process your warranty claim and contact you in the event of a product recall, we ask you to share certain personal information with us, either directly or through your local Toro company or dealer.

The Toro warranty system is hosted on servers located within the United States where privacy law may not provide the same protection as applies in your country.

BY SHARING YOUR PERSONAL INFORMATION WITH US, YOU ARE CONSENTING TO THE PROCESSING OF YOUR PERSONAL INFORMATION AS DESCRIBED IN THIS PRIVACY NOTICE.

The Way Toro Uses Information

Toro may use your personal information to process warranty claims, to contact you in the event of a product recall and for any other purpose which we tell you about. Toro may share your information with Toro's affiliates, dealers or other business partners in connection with any of these activities. We will not sell your personal information to any other company. We reserve the right to disclose personal information in order to comply with applicable laws and with requests by the appropriate authorities, to operate our systems properly or for our own protection or that of other users.

Retention of your Personal Information

We will keep your personal information as long as we need it for the purposes for which it was originally collected or for other legitimate purposes (such as regulatory compliance), or as required by applicable law.

Toro's Commitment to Security of Your Personal Information

We take reasonable precautions in order to protect the security of your personal information. We also take steps to maintain the accuracy and current status of personal information.

Access and Correction of your Personal Information

If you would like to review or correct your personal information, please contact us by email at legal@toro.com.

Australian Consumer Law

Australian customers will find details relating to the Australian Consumer Law either inside the box or at your local Toro Dealer.



The Toro Warranty and The Toro GTS Starting Guarantee

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise to repair for the original purchaser1the Toro Product listed below if defective in materials or workmanship or if the Toro GTS (Guaranteed to Start) engine will not start on the first or second pull, provided the routine maintenance required in the *Operator's Manual* have been performed.

The following time periods apply from the date of purchase:

| e 1 11, | • |
|---|--|
| Products Walk Power Mowers | Warranty Period |
| Cast Deck | 5 years Residential Use ² 90 Days Commercial Use |
| • Engine | 5 years GTS Guarantee, Residential Use ³ |
| Battery | 2 years |
| Steel Deck | 2 years Residential Use ² 90 Days Commercial Use |
| • Engine | 2 years GTS Guarantee, Residential Use ³ |
| TimeMaster Mowers | 3 years Residential Use ² 90 Days Commercial Use |
| •Engine | 3 years GTS Guarantee, Residential Use ³ |
| Battery | 2 years |
| Electric Hand Held Products | 2 years Residential Use ² No Warranty for Commercial Use |
| Snowthrowers | |
| Single Stage | 2 years Residential Use ² 45 Days Commercial Use |
| • Engine | 2 years GTS Guarantee, Residential Use ³ |
| Two Stage | 3 years Residential Use ² 45 Days Commercial Use |
| Chute, chute deflector and impeller housing cover | Lifetime (original owner only) ⁵ |
| Electric Snowthrowers | 2 years Residential Use ² No Warranty for Commercial Use |
| All Ride-On Units Below | |
| • Engine | See engine manufacturer's warranty ⁴ |
| • Battery | 2 years Residential Use ² |
| Attachments | 2 years Residential Use ² |
| DH Lawn & Garden Tractors | 2 years Residential Use ² 90 Days Commercial Use |
| XLS Lawn & Garden Tractors | 3 years Residential Use ² 90 Days Commercial Use |
| TimeCutter | 3 years Residential Use ² 90 Days Commercial Use |
| TITAN Mowers • Frame | 3 years or 240 hours ⁵ Lifetime (original owner only) ⁶ |
| Z Master Mowers — 2000 Series • Frame | 4 years or 500 hours ⁵ Lifetime (original owner only) ⁶ |
| | |

¹Original Purchaser means the person who originally purchased the Toro Product.

²Residential use means use of the product on the same lot as your home. Use at more than one location is considered commercial use and the commercial use warranty would apply.

³The Toro GTS Starting Guarantee does not apply when the product is used commercially.

⁴Some engines used on Toro Products are warranted by the engine manufacturer

5Whichever occurs first.

⁶Lifetime Frame Warranty - If the main frame, consisting of the parts welded together to form the tractor structure that other components such as the engine are secured to, cracks or breaks in normal use, it will be repaired or replaced, at Toro's option, under warranty at no cost for parts and labor. Frame failure due to misuse or abuse and failure or repair required due to rust or corrosion are not covered.

This warranty covers the cost of parts and labor, but you must pay transportation costs.

Warranty may be denied if the hour meter is disconnected, altered, or shows signs of being tampered with.

Owner Responsibilities

You must maintain your Toro Product by following the maintenance procedures described in the *Operator's Manual*. Such routine maintenance, whether performed by a dealer or by you, is at your expense.

Instructions for Obtaining Warranty Service

If you think that your Toro Product contains a defect in materials or workmanship, follow this procedure:

- Contact your seller to arrange service of the product. If for any reason it is impossible for you to contact your seller, you may contact any Toro Authorized Distributor to arrange service. See attached Distributor List.
- Bring the product and your proof of purchase (sales receipt) to the servicing outlet. If for any reason you are dissatisfied with the servicing outlet's analysis or with the assistance provided, contact us at:

Toro Customer Care Department, RLC Division Toro Warranty Company 8111 Lyndale Avenue South Bloomington, MN 55420-1196 001–952–948–4707

Items and Conditions Not Covered

This express warranty does not cover the following:

- Cost of regular maintenance service or wear parts, such as blades, rotor blades (paddles), scraper blades, belts, fuel, lubricants, oil changes, spark plugs, pneumatic tires, cable/linkage or brake adjustments
- Any product or part which has been altered or misused and requires replacement or repair due to accidents or lack of proper maintenance
- Repairs necessary due to failure to use fresh fuel (less than one month old), or failure to properly prepare the unit prior to any period of non-use over one month
- All repairs covered by these warranties must be performed by an authorized Toro servicing outlet using approved replacement parts.

General Conditions

The purchaser is covered by the national laws of each country. The rights to which the purchaser is entitled with the support of these laws are not restricted by this warranty.