



# 20in Mulching/Rear Bagging Lawn Mower

- Model No. 10603—Serial No. 311000001 and Up
- Model No. 10604—Serial No. 311000001 and Up
- Model No. 10606—Serial No. 311000001 and Up
- Model No. 10623—Serial No. 311000001 and Up
- Model No. 10624—Serial No. 311000001 and Up

## Operator's Manual

# Introduction

This rotary-blade, walk-behind lawn mower is intended to be used by residential homeowners or professional, hired operators. It is designed primarily for cutting grass on well-maintained lawns on residential or commercial 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](http://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. Write the numbers in the space provided.

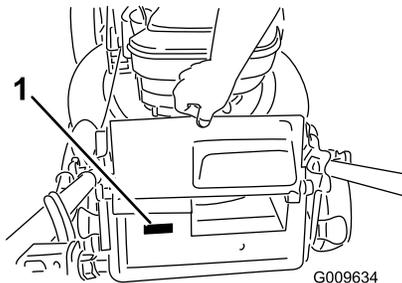


Figure 1

1. Model and serial number plate

Model No. _____
Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety alert symbol (Figure 2), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



Figure 2

1. Safety alert symbol

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

**WARNING**

**CALIFORNIA**  
**Proposition 65 Warning**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

**Important:** This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land. Other states or federal areas may have similar laws.

This spark ignition system complies with Canadian ICES-002.

The enclosed *Engine Owner's Manual* is supplied for information regarding the US Environmental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance, and warranty. Replacements may be ordered through the engine manufacturer.

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.

## Safety

This lawn mower meets or exceeds the CPSC blade safety requirements for walk-behind rotary lawn mowers and the B71.1 specifications of the American National Standards Institute in effect at the time of production.

**Read and understand the contents of this manual before you start the engine.**

The safety alert symbol (Figure 2) is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. Improperly using or maintaining this mower could result in injury or death. To reduce this potential, comply with the following safety instructions.

The following instructions have been adapted from the ANSI/OPEI standard B71.1-2003.

**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.**

## General Operation

- Read, understand, and follow all instructions on the machine and in the manual(s) before starting.
- Do not put hands or feet near or under the machine. Keep clear of the discharge opening at all times.
- Only allow responsible adults, who are familiar with the instructions, to operate this machine.
- Clear the area of objects such as rocks, wire, toys, etc., which could be thrown by the blade. Stay behind the handle when the engine is running.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.

- Do not operate machine barefooted or while wearing sandals. Always wear substantial footwear.
- Do not pull machine backward unless absolutely necessary. Always look down and behind before and while moving backward.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, rear guard, or other safety protective devices in place and working.
- Never leave a running machine unattended.
- Stop the engine and wait until the blade comes to a complete stop before cleaning the machine, removing grass catcher, or unclogging the discharge guard.
- Operate machine only in daylight or good artificial light.
- Do not operate machine while under the influence of alcohol or drugs.
- Never operate mower in wet grass. Always be sure of your footing; walk; never run.
- Disengage the drive system, if so equipped, before starting the engine.
- If the machine should start to vibrate abnormally, stop the engine and check for the cause immediately. Vibration is generally a warning of trouble.
- Always wear eye protection when operating machine.
- Lightning can cause severe injury or death. If you see lightning or hear thunder in the area, do not operate the machine; seek shelter.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.

## Slope Operation

Slopes are a major factor related to slip and fall accidents, which can result in severe injury. Operation on all slopes require extra caution. If you feel uneasy on a slope, do not mow it.

- Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause a slip and fall accident. Tall grass can hide obstacles.

- Do not mow on wet grass or excessively steep slopes. Poor footing could cause a slip and fall accident.
- Do not mow near drop-offs, ditches, or embankments. You could lose your footing or balance.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.

## **▲ WARNING**

**Exhaust contains carbon monoxide, an odorless, deadly poison that can kill you.**

**Do not run the engine indoors or in an enclosed area.**

## **Children**

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. **Never** assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
- Be alert and turn mower off if a child enters the area.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

## **Service**

### **Safe Handling of Gasoline**

**To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.**

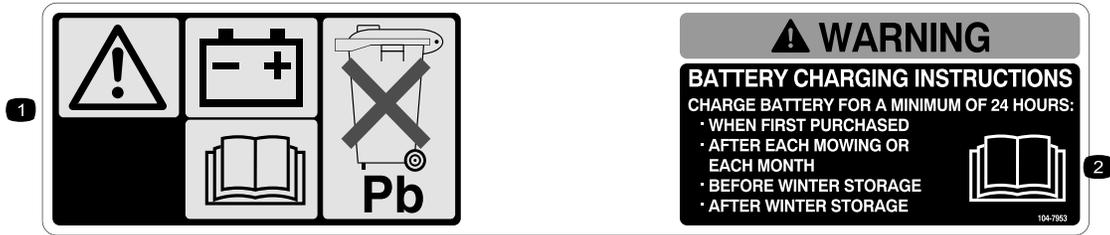
- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only an approved gasoline container.
- Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never refuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or on other appliances.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.

### **General Service**

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before starting.
- Never make any adjustments or repairs with the engine running. Disconnect the spark-plug wire and ground against engine to prevent unintended starting.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or overspeed the engine.
- Maintain or replace safety and instruction labels, as necessary.

# Safety and Instructional Decals

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



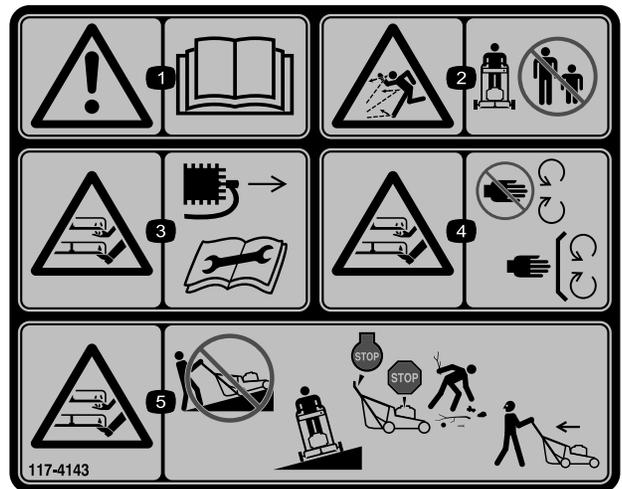
104-7953

On battery-equipped models only

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



94-8072



117-4143

1. Warning—read the *Operator's Manual*.
2. Thrown object hazard—keep bystanders a safe distance from the machine.
3. Cutting/dismemberment hazard of hand or foot, mower blade—disconnect the spark-plug wire and read the instructions before servicing or performing maintenance.
4. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts and keep all guards and shields in place.
5. Cutting/dismemberment hazard of hand or foot, mower blade—do not mow up and down slopes, only mow across; stop the mower and engine, pick up debris before operating; look behind and down when reversing.

# Setup

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

## 1

### Unfolding the Handle

#### No Parts Required

#### Procedure

#### **⚠ 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. Loosen the handle knobs (Figure 3).

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

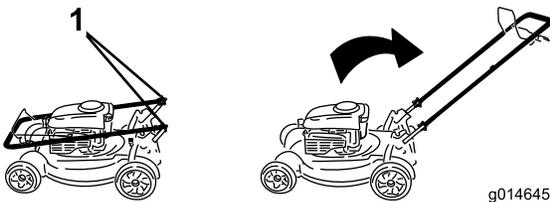


Figure 3

1. Handle knob (2)

2. Move the handle to the operating position.
3. Tighten the handle knobs firmly by hand (Figure 3).

## 2

### Filling the Engine with Oil

#### No Parts Required

#### Procedure

Your mower does not come with oil in the engine.

1. Remove the dipstick (Figure 4).

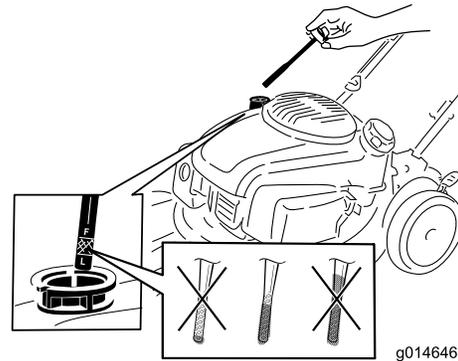


Figure 4

2. **Slowly** pour oil into the oil fill tube until the oil level reaches the Full line on the dipstick (Figure 4). **Do not overfill.** (Max. fill: 22 oz. (0.65 l), type: 10W-30 or SAE 30 detergent oil with an API service classification of SJ or higher.)

**Note:** Each time you check the oil level, remove the dipstick and wipe it clean, insert it into the oil filler neck (but **do not** screw it in), then remove it again and check the level (Figure 4).

**Note:** If you overfill the engine, pour some oil out of it as directed in Changing the Engine Oil.

3. Install the dipstick securely.

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

## 3

### Charging the Battery

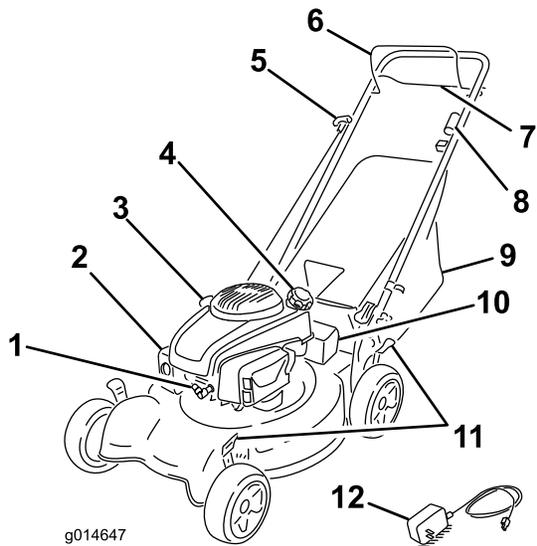
#### No Parts Required

#### Procedure

Electric-start models only

Refer to Charging the Battery in the Maintenance section.

# Product Overview



**Figure 5**

Self-propel model shown

- |                        |  |
|------------------------|--|
| 1. Spark plug          | 7. Self-propel drive bar<br>(self-propel models only)  |
| 2. Air filter          | 8. Ignition key (electric-start<br>models only)        |
| 3. Oil fill/Dipstick   | 9. Grass bag   |
| 4. Fuel tank cap       | 10. Battery (electric-start<br>models only)            |
| 5. Recoil start handle | 11. Cutting height levers (4)                          |
| 6. Blade control bar   | 12. Battery charger<br>(electric-start models<br>only) |

## Operation

### Attachments/Accessories

A selection of Toro approved attachments and accessories are available for use with the machine to enhance and expand its capabilities. Contact your Authorized Service Dealer or Distributor or go to [www.Toro.com](http://www.Toro.com) for a list of all approved attachments and accessories.

## Filling the Fuel Tank

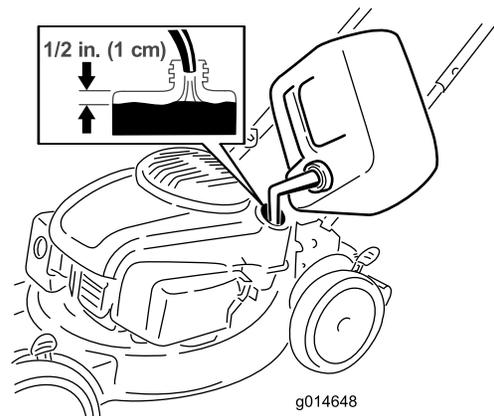
### **▲ DANGER**

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 mower 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 6).

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



**Figure 6**

## Checking the Engine Oil Level

**Service Interval:** Before each use or daily

1. Remove the dipstick, wipe it clean, and insert it into the oil filler neck, but **do not** screw it in (Figure 7).

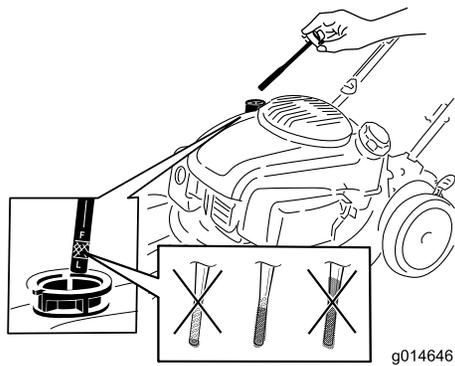


Figure 7

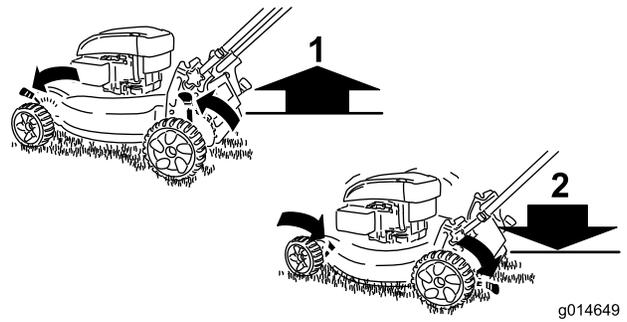


Figure 8

1. Raise the mower
2. Lower the mower

2. Remove the dipstick and check the oil level (Figure 7). If the oil level is below the Add mark on the dipstick, **slowly** pour oil into the oil fill tube to raise the oil level to the Full mark on the dipstick. **Do not overfill.** (Max. fill: 22 oz. (0.65 l), type: 10W-30 or SAE 30 detergent oil with an API service classification of SJ or higher.)

**Note:** If you overfill the engine, pour some oil out of it as directed in Changing the Engine Oil.

3. Install the dipstick securely.

## Adjusting the Cutting Height

### ⚠ 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.

### ⚠ CAUTION

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 all four wheels to the same height.

**Note:** To raise the mower, move all the cutting height levers forward; to lower the mower, move the all the cutting height levers rearward (Figure 8).

**Note:** The cutting height settings are 1 inch (25 mm); 1-1/2 inch (38 mm); 2 inches (51 mm); 2-1/2 inches (64 mm); 3 inches (76 mm); 3-1/2 inches (89 mm); and 4 inches (102 mm).

## Starting the Engine

1. Hold the blade control bar (Figure 9) against the handle.

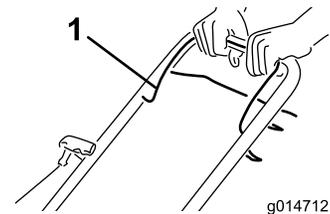


Figure 9

1. Blade control bar

2. Turn the ignition key (Figure 10) (electric-start models only) or pull recoil start handle (Figure 11).

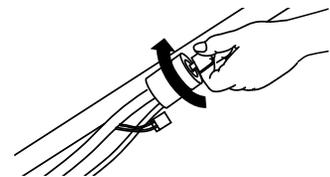


Figure 10

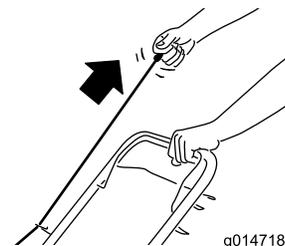


Figure 11

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

# Using the Self-propel Drive

## Self-propel models only

To operate the self-propel drive, squeeze the self-propel drive bar (Figure 12) toward the handle and hold it.

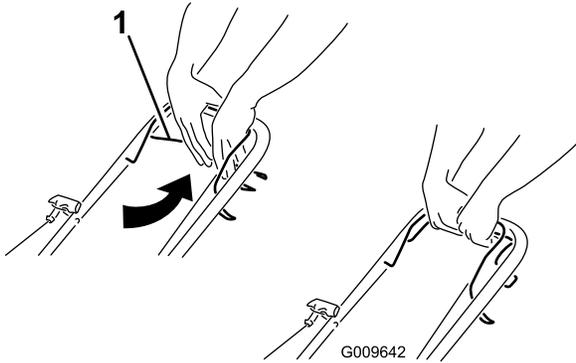


Figure 12

1. Self-propel drive bar

To disengage the self-propel drive, release the self-propel drive bar.

**Note:** The maximum self-propel ground speed is fixed. To reduce the ground speed, increase the space between the self-propel drive bar and the handle.

# Stopping the Engine

**Service Interval:** Before each use or daily

To stop the engine, release the blade control bar (Figure 13).

**Note:** Remove the ignition key when you leave the mower (electric-start mowers 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 mower immediately and contact an Authorized Service Dealer.

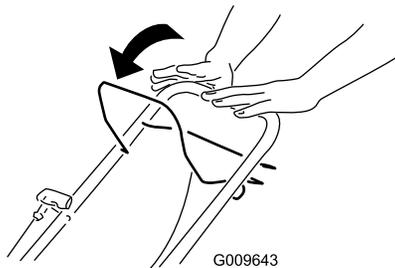


Figure 13

# Mulching the Clippings

Your mower comes from the factory ready to mulch the grass and leaf clippings back into the lawn.

If the grass bag is on the mower, remove it (refer to Removing the Grass Bag) before mulching the clippings.

# Bagging the Clippings

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

## ⚠ 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.

## ⚠ 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. Lift up the rear deflector (Figure 14).

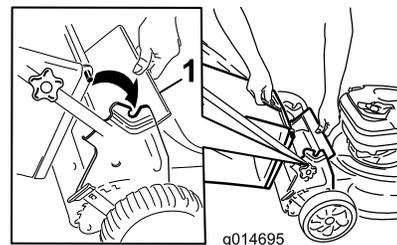


Figure 14

1. Rear deflector
2. Insert the grass bag handle onto the notches on the handle brackets (Figure 14).

# Removing the Grass Bag

1. Lift up the rear deflector (Figure 14).
2. Lift the grass bag handle out from the notches on the handle brackets and remove the bag from the mower.
3. Close the rear 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 mower strikes an object or starts to vibrate, immediately stop the engine, disconnect the wire from the spark plug, and examine the mower 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 2 inch (51 mm) setting unless the grass is sparse or it is late fall when grass growth begins to slow down. Refer to Adjusting the Cutting Height.
- When cutting grass over 6 inches (15 cm) 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 mower 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 mower to plug or the engine to stall.

### **⚠ WARNING**

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

- 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 mower.
  - 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 2 inches (51 mm) and the rear wheels at 2-1/2 inches (64 mm).

## 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 5 inches (13 cm) 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 mower 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	<ul style="list-style-type: none"> <li>Change the engine oil.</li> </ul>
Before each use or daily	<ul style="list-style-type: none"> <li>Check the engine oil level.</li> <li>Ensure that the engine stops within 3 seconds after releasing the blade control bar.</li> <li>Clean grass clippings and dirt from under the mower.</li> </ul>
Every 25 hours	<ul style="list-style-type: none"> <li>Check the air cleaner for dirty, loose, or damaged parts, and clean or replace them if necessary.</li> <li>Charge the battery for 24 hours (electric-start models only).</li> </ul>
Every 50 hours	<ul style="list-style-type: none"> <li>Change the engine oil.</li> </ul>
Every 100 hours	<ul style="list-style-type: none"> <li>Replace the air cleaner element (more frequently when operating the mower in dusty or dirty operating conditions).</li> <li>Clean the cooling system (refer to your engine owner's manual).</li> <li>Replace the spark plug.</li> </ul>
Before storage	<ul style="list-style-type: none"> <li>Empty the fuel tank before repairs as directed and before annual storage.</li> </ul>
Yearly	<ul style="list-style-type: none"> <li>Replace the blade or have it sharpened (more frequently if the edge dulls quickly).</li> <li>Refer to your Engine Operator's Manual for any additional yearly maintenance procedures.</li> </ul>

**Important:** Refer to your *Engine Operator's Manual* for additional maintenance procedures.

## Preparing for Maintenance

- Stop the engine and wait for all moving parts to stop.
- Disconnect the spark-plug wire from the spark plug (Figure 15) before performing any maintenance procedure.

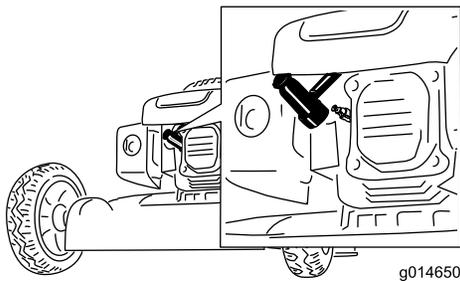


Figure 15

- Spark plug wire

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

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

hand fuel pump to remove the fuel. Always tip the mower onto its side with the dipstick down.

### ⚠ WARNING

Tipping the mower 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.

## Servicing the Air Cleaner Element

**Service Interval:** Every 25 hours/Yearly (whichever comes first)—Check the air cleaner for dirty, loose, or damaged parts, and clean or replace them if necessary.

Every 100 hours/Yearly (whichever comes first)—Replace the air cleaner element (more frequently when operating the mower in dusty or dirty operating conditions).

1. Perform the pre-maintenance procedures; refer to Preparing for Maintenance.
2. Unscrew and open the air cleaner cover (Figure 16).

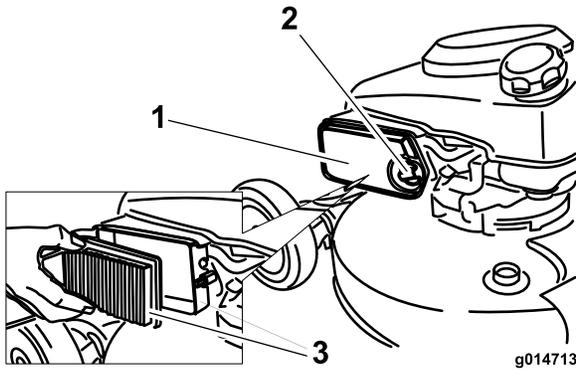


Figure 16

1. Screw
2. Air cleaner cover
3. Air cleaner element

3. Replace the air cleaner element.
4. Install the air cleaner cover.

## Changing the Engine Oil

**Service Interval:** After the first 5 hours

Every 50 hours/Yearly (whichever comes first)

Run the engine a few minutes before changing the oil to warm it. Warm oil flows better and carries more contaminants.

1. Perform the pre-maintenance procedures; refer to Preparing for Maintenance.
2. Remove the dipstick (Figure 17).

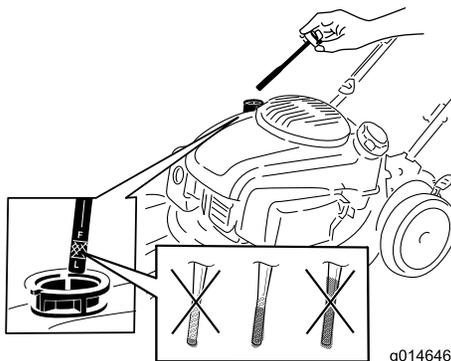


Figure 17

3. Tip the mower onto its side, with the air filter up, to drain the used oil out through the oil fill tube (Figure 18).

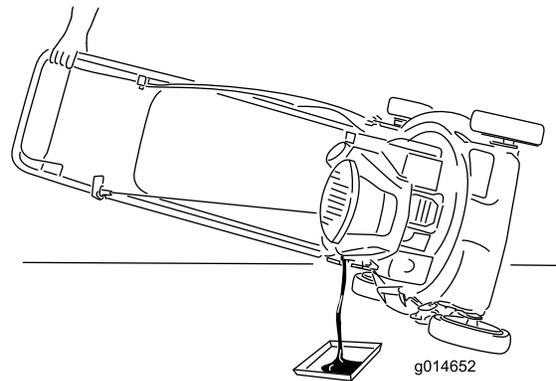


Figure 18

4. **Slowly** pour oil into the oil fill tube until the oil level reaches the Full line on the dipstick (Figure 17). **Do not overfill.** (Max. fill: 22 oz. (0.65 l), type: 10W-30 or SAE 30 detergent oil with an API service classification of SJ or higher.)

**Note:** Each time you check the oil level, remove the dipstick and wipe it clean, insert it into the oil filler neck (but **do not** screw it in), then remove it again and check the level (Figure 17).

**Note:** If you overfill the engine, pour some oil out of it as directed in Changing the Engine Oil.

5. Install the dipstick securely.
6. Dispose of the used oil properly at a local recycling center.

## Charging the Battery

**Service Interval:** Every 25 hours

**Electric-start models only**

### WARNING

#### CALIFORNIA Proposition 65 Warning

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

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 mower wire harness located below the ignition key (Figure 19).

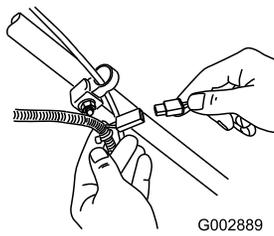


Figure 19

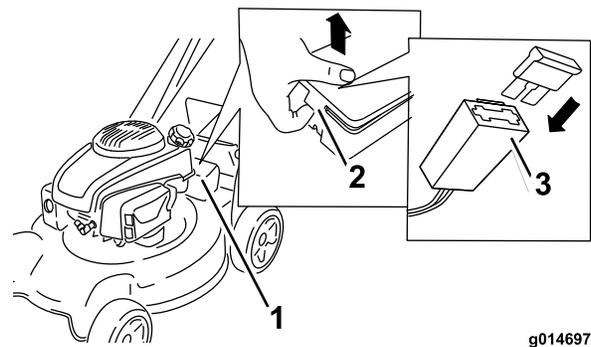


Figure 20

1. Battery
2. Battery cover
3. Fuse holder

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 two-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 models only

Your mower comes with a fuse that protects the electric starter. 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.

**Important:** You cannot start the mower with the electric starter or charge the battery unless you install the fuse.

1. Unclip both ends of the battery cover and remove it (Figure 20).

2. Insert the fuse into the fuse holder (Figure 20).
3. Install the battery cover.

## Replacing the Blade

**Service Interval:** Yearly

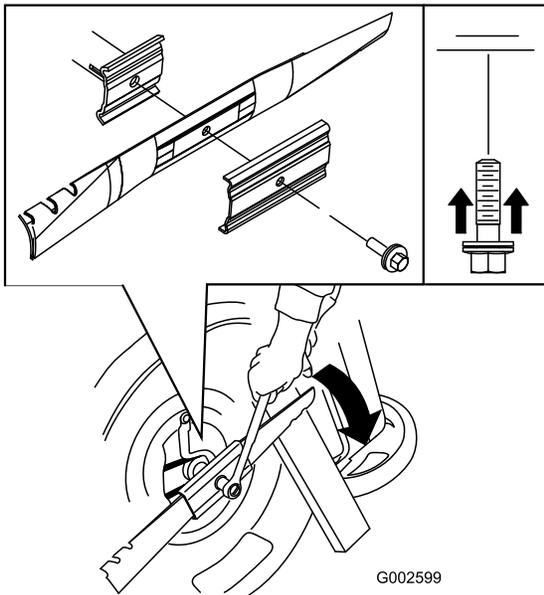
**Important:** *You will need a torque wrench to install the blade properly. If you do not have a torque wrench or are uncomfortable performing this procedure, contact an Authorized Service Dealer.*

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 or replace it.

### ⚠ WARNING

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

- **Disconnect the wire from the spark plug.**
  - **Wear gloves when servicing the blade.**
1. Disconnect the spark-plug wire from the spark plug. Refer to Preparing for Maintenance.
  2. Tip the mower onto its side, with the air filter up.
  3. Use a block of wood to hold the blade steady.
  4. Remove the blade (turn the blade bolt counterclockwise), saving all the mounting hardware.
  5. Install the new blade (turn the blade bolt clockwise) and all mounting hardware (Figure 21).



**Figure 21**

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

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

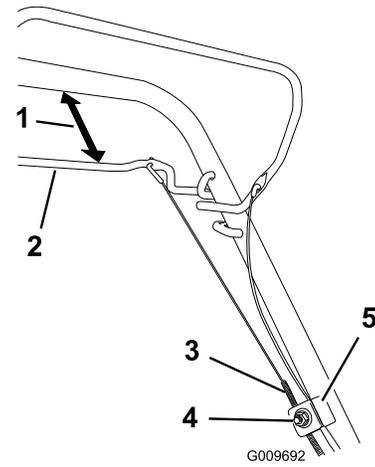
**Important:** A bolt torqued to 60 ft-lb (82 N-m) is very tight. While holding the blade with a block of wood, put your weight behind the ratchet or wrench and tighten the bolt securely. This bolt is very difficult to overtighten.

## Adjusting the Self-propel Drive Cable

### Self-propel models only

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 22).



**Figure 22**

1. 1 to 1-1/2 inches (25 to 38 mm)
2. Self-propel drive bar
3. Cable jacket
4. Cable support nut
5. Cable support

2. Hold the self-propel bail 1 to 1-1/2 inches (25 to 38 mm) from the handle (Figure 22).
3. Pull down the cable jacket (toward the mower) until there is no slack in the cable (Figure 22).
4. Tighten the nut on the cable support.
5. Release the self-propel drive bar and ensure that the cable is loose.

**Note:** The cable must be loose with the self-propel drive bar in the released position; otherwise, the mower may creep when you disengage the bar.

## Cleaning the Mower

**Service Interval:** Before each use or daily

### ⚠ WARNING

The mower may dislodge material from under the mower housing.

- Wear eye protection.
  - Stay in the operating position (behind the handle).
  - Do not allow bystanders in the area.
1. With the engine running on a flat paved surface, spray a stream of water in front of the **right** rear wheel (Figure 23).

The water will splash into the path of the blade, cleaning out the clippings.



Figure 23

2. When no more clippings come out, stop the water and move the mower to a dry area.
3. Run the engine for a few minutes to dry the housing to prevent it from rusting.

## Storage

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

## Preparing the Mower for Storage

### ⚠ WARNING

Gasoline vapors can explode.

- Do not store gasoline more than 30 days.
  - Do not store the mower 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. Run the mower until the engine stops from running out of fuel.
  3. Prime the engine and start it again.
  4. Allow the engine to run until it stops. When you can no longer start the engine, it is sufficiently dry.
  5. Disconnect the wire from the spark plug.
  6. Remove the spark plug, add 1 oz. (30 ml) 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.
  7. Install the spark plug and tighten it with a torque wrench to 15 ft-lb (20 N-m).
  8. Tighten all nuts, bolts, and screws.
  9. Charge the battery for 24 hours, then unplug the battery charger and store the mower in an unheated area. If you must store the mower in a heated area, you must charge the battery every 90 days (electric-start models only).

## Folding the Handle

### ⚠ 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. Loosen the handle knobs until you can move the handle freely (Figure 24).

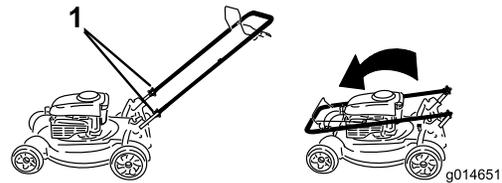


Figure 24

1. Handle knob (2)
2. Move the handle forward as shown in Figure 24.

## Removing the Mower from Storage

1. Charge the battery for 24 hours (electric-start models only).
2. Connect the wire to the spark plug.

**Notes:**

### Conditions and Products Covered under the No-Worry Warranty

The Toro® Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise to repair any Toro Product used for residential purposes\*, if defective in materials or workmanship or if it stops functioning due to the failure of a component for the periods listed below.

<b>Products</b>	<b>Warranty Period</b>
Product and Attachments	2 year full warranty
Power Train** (Engine and Transmission)	3 year full warranty
Batteries	1 year
Wear Items (Belts, blades, blade adaptors, grass bags, cables, and wheels)	90 days

### Limited Warranty under the No-Worry Warranty for Commercial Use

Gas-powered Toro Products used at more than one location, or used for institutional or rental use, are warranted for 45 days against defects in materials or workmanship. Components failing due to normal wear are not covered by this warranty.

### Coverage under the Tru-Start Commitment

The Toro® Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise that your Tru-Start engine, when used for residential purposes\*, will start on the first or second pull for three (3) years from the date of purchase, if you provide the routine maintenance it requires, or we will fix it free of charge.

This Toro Commitment does not apply when the product is used commercially.\*

### The following applies to both the No-Worry Warranty and the Tru-Start Commitment

#### 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.

#### Items and Conditions Not Covered

There is no other express warranty except for special emission system coverage on some products. This express warranty does not cover the following:

- Any product or part which has been altered or misused and requires replacement or repair due to an accident or lack of proper maintenance
- Pickup and delivery charges
- Operational misuse, neglect, or accidents
- Repairs or attempted repairs by anyone other than an Authorized Toro Service Dealer

### Countries Other than the United States or Canada

Customers who have purchased Toro products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer. If all other remedies fail, you may contact us at Toro Warranty Company.

\*Residential purposes means use of the product on the same lot as your home. Use at more than one location, or institutional or rental use, is considered commercial use and the commercial use warranty would apply.

\*\*Power Train coverage includes engine and transmission only. The transmission is defined as the gear case, internal components, and axles.

- Repairs or adjustments to correct starting difficulties due to the following:
  - Failure to follow proper maintenance procedures
  - Contaminants in the fuel system
  - Failure to drain the fuel system prior to any period of non-use over one month
- Special operational conditions where starting may require more than two pulls:
  - First time starts after extended period of non-use over one month or seasonal storage
  - Improper starting procedure

### Instructions for Obtaining Warranty Service

If you think that your Toro Product contains a defect in materials or workmanship, or if a normal, able-bodied adult can no longer start your product's engine in one or two pulls, follow this procedure:

1. Contact any Authorized Toro Service Dealer to arrange service at their dealership. To locate a dealer convenient to you, refer to the *Yellow Pages* of your telephone directory (look under "Lawn Mowers") or access our web site at [www.Toro.com](http://www.Toro.com). You may also call the numbers listed in item #3 to use the 24-hour Toro Dealer locator system.
2. Bring the product and your proof of purchase (sales receipt) to the Service Dealer. The dealer will diagnose the problem and determine if it is covered under warranty.
3. If for any reason you are dissatisfied with the Service Dealer's analysis or with the assistance provided, contact us at: Customer Care Department, Consumer Division, Toro Warranty Company, 8111 Lyndale Avenue South, Bloomington, MN 55420-1196; or call us toll free at 866-216-6032 (U.S. customers) or 866-216-6031 (Canadian customers).

### General Conditions

All repairs covered by these warranties must be performed by an Authorized Toro Service Dealer using Toro approved replacement parts.

**Neither The Toro® Company nor Toro Warranty Company is liable for indirect, incidental, or consequential damages in connection with the use of the Toro Products covered by these warranties, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under these warranties.**

Some states do not allow exclusions of incidental or consequential damages, so the above exclusions may not apply to you.

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



# Cortacésped de 20 pulgadas con mulching/ensacado trasero

Nº de modelo 10603—Nº de serie 311000001 y superiores  
Nº de modelo 10604—Nº de serie 311000001 y superiores  
Nº de modelo 10606—Nº de serie 311000001 y superiores  
Nº de modelo 10623—Nº de serie 311000001 y superiores  
Nº de modelo 10624—Nº de serie 311000001 y superiores

## Manual del operador

# Introducción

Este cortacésped dirigido de cuchillas rotativas está diseñado para ser usado por usuarios domésticos o por operadores profesionales contratados. Está diseñado principalmente para segar césped bien mantenido en zonas verdes residenciales o comerciales. No está diseñado para cortar maleza o para aplicaciones agrícolas.

Lea este manual detenidamente para aprender a utilizar y mantener correctamente su producto, y para evitar lesiones y daños al producto. Usted es el responsable de operar el producto de forma correcta y segura.

Usted puede ponerse en contacto directamente con Toro en [www.Toro.com](http://www.Toro.com) si desea información sobre productos y accesorios, o si necesita localizar un distribuidor o registrar su producto.

Cuando necesite asistencia técnica, piezas genuinas Toro o información adicional, póngase en contacto con un Servicio Técnico Autorizado o con Asistencia al Cliente Toro, y tenga a mano los números de modelo y serie de su producto. Figura 1 identifica la ubicación de los números de modelo y serie en el producto. Escriba los números en el espacio provisto.

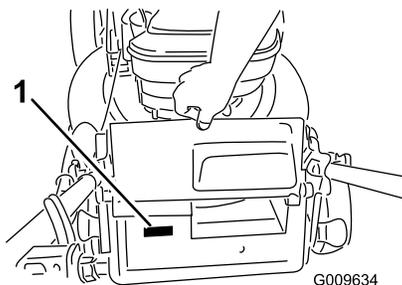


Figura 1

1. Placa con los números de modelo y de serie

Nº de modelo _____
Nº de serie _____

Este manual identifica peligros potenciales y contiene mensajes de seguridad identificados por el símbolo de alerta de seguridad (Figura 2), que señala un peligro que puede causar lesiones graves o la muerte si usted no sigue las precauciones recomendadas.



Figura 2

1. Símbolo de alerta de seguridad

Este manual utiliza dos palabras más para resaltar información. **Importante** llama la atención sobre información mecánica especial, y **Nota** resalta información general que merece una atención especial.

## ADVERTENCIA

### CALIFORNIA

#### Advertencia de la Propuesta 65

Los gases de escape de este producto contienen productos químicos que el Estado de California sabe que causan cáncer, defectos congénitos u otros peligros para la reproducción.

**Importante:** Este motor no está equipado con un silenciador con parachispas. Es una infracción de la legislación de California (California Public Resource Code Section 4442) la utilización o la operación del motor en cualquier terreno de bosque, monte o terreno cubierto de hierba. Otros estados o zonas federales pueden tener una legislación similar.