Form No. 3426-914 Rev B

# 55cm Recycler® Lawn Mower

**Model No. 20958—Serial No. 404320000 and Up**

**Operator's Manual**

# Introduction

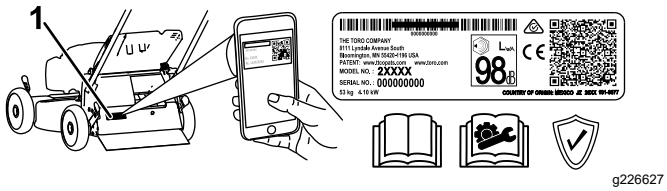
This rotary-blade, walk-behind lawn mower is intended to be used by residential homeowners. It is designed primarily for cutting grass on well-maintained lawns on residential properties.

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

Visit www.Exmark.com for more information, including safety tips, training materials, accessory information, help finding a dealer, or to register your product.

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

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




g226627

**Figure 1**

1. Model and serial number location

**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.



g000502

**Figure 2**

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, please see the separate product specific Declaration of Conformity (DOC) sheet.

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.

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

Do not tamper with or disable safety devices on the machine, and check their proper operation regularly. Do not attempt to adjust or tamper with the engine speed control; doing so may create an unsafe operating condition, resulting in personal injury.

© 2024—Exmark Mfg. Co., Inc.
2101 Ashland Ave
Beatrice, NE 68310

Register at www.Toro.com.

Original Instructions (EN)
Printed in Mexico
All Rights Reserved

*3426-914*

# Contents


Introduction ..... 1
Safety ..... 2
General Safety ..... 2
Safety and Instructional Decals ..... 3
Setup ..... 5
1 Assembling and Unfolding the Handle ..... 5
2 Installing the Blade-Control Bar ..... 5
3 Installing the Recoil-Starter Rope in the Rope Guide ..... 6
4 Filling the Crankcase with Oil ..... 6
5 Assembling the Grass Bag ..... 7
Product Overview ..... 8
Specifications ..... 8
Operation ..... 8
Before Operation ..... 8
Before Operation Safety ..... 8
Filling the Fuel Tank ..... 9
Checking the Engine-Oil Level ..... 9
Adjusting the Handle Height ..... 10
Adjusting the Cutting Height ..... 10
During Operation ..... 11
During Operation Safety ..... 11
Starting the Engine ..... 11
Using the Self-Propel Drive ..... 12
Shutting Off the Engine ..... 12
Engaging the Blade ..... 12
Disengaging the Blade ..... 13
Checking the Blade-Brake-Clutch Operation ..... 13
Recycling the Clippings ..... 13
Bagging the Clippings ..... 13
Operating the Bag-on-Demand Lever ..... 14
Side-Discharging the Clippings ..... 15
Operating Tips ..... 15
After Operation ..... 16
After Operation Safety ..... 16
Cleaning under the Machine ..... 16
Folding the Handle ..... 16
Maintenance ..... 18
Recommended Maintenance Schedule(s) ..... 18
Maintenance Safety ..... 18
Preparing for Maintenance ..... 18
Servicing the Air Filter ..... 19
Changing the Engine Oil ..... 20
Replacing the Blade ..... 21
Cleaning the Blade-Brake-Clutch Shield ..... 21
Adjusting the Self-Propel Drive ..... 22
Storage ..... 23
Storage Safety ..... 23
Preparing the Machine for Storage ..... 23
Removing the Machine from Storage ..... 23


# Safety

This machine has been designed in accordance with EN ISO 5395.

## General Safety

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

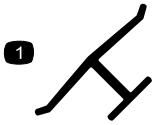
Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

- Read, understand, and follow the instructions and warnings in this *Operator's Manual* and on the machine and attachments before starting the engine.
- Do not put your hands or feet near moving parts of or under the machine. Keep clear of any discharge opening.
- Do not operate the machine without all guards and other safety protective devices in place and functioning properly on the machine.
- Keep bystanders and children out of the operating area. Do not allow children to operate the machine. Allow only people who are responsible, trained, familiar with the instructions, and physically capable to operate the machine.
- Stop the machine, shut off the engine, and wait for all moving parts to stop before servicing, fueling, or unclogging the machine.

Improperly using or maintaining this machine can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety-alert symbol ⚠, which means Caution, Warning, or Danger—personal safety instruction. Failure to comply with these instructions may result in personal injury or death.

# Safety and Instructional Decals

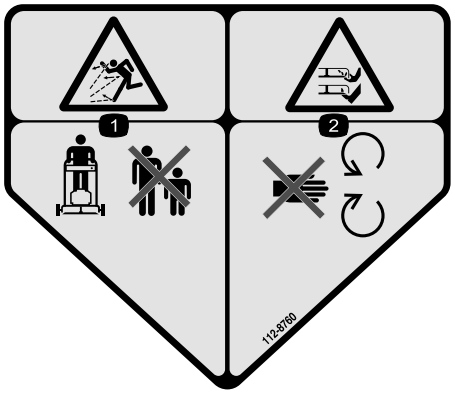
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.




decaloemmarkt

**Manufacturer's Mark**

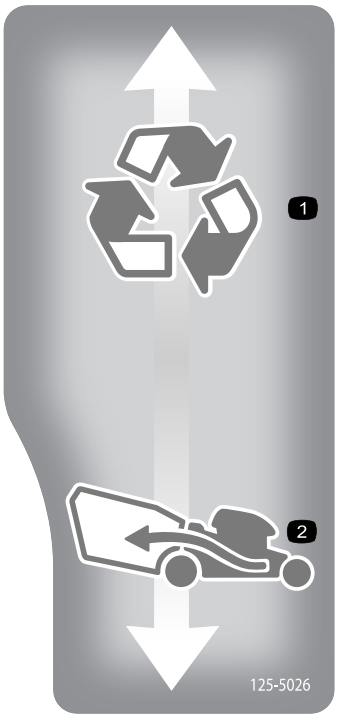
1. This mark indicates that the blade is identified as a part from the original machine manufacturer.




decal112-8760

**112-8760**

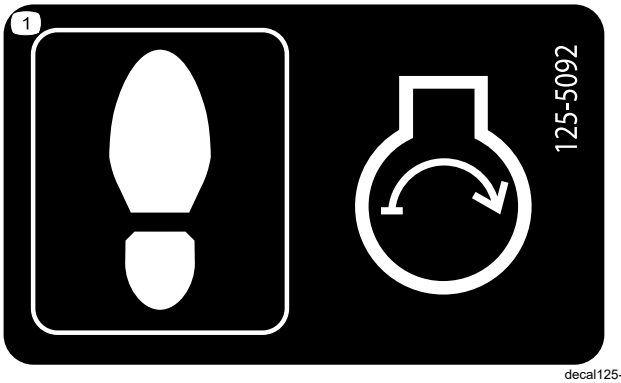
1. Thrown object hazard—keep bystanders away.
2. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts.




decal125-5026

**125-5026**

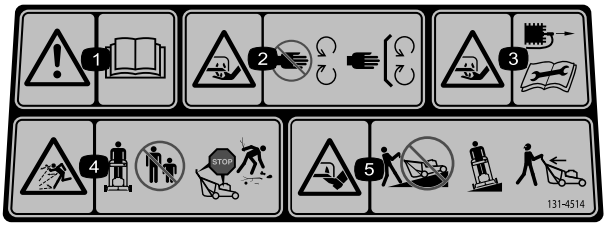
1. Recycling mode
2. Bagging mode




decal125-5092

**125-5092**

1. Step here when starting the engine.

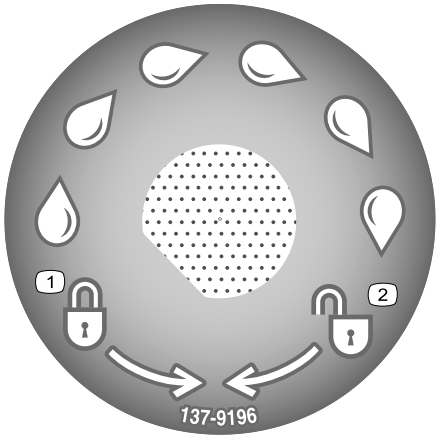



decal131-4514

**131-4514**

1. Warning—read the *Operator's Manual*.
2. Cutting/dismemberment hazard of hand, mower blade—stay away from moving parts; keep all guards and shields in place.
3. Cutting/dismemberment hazard of hand, mower blade—disconnect the spark-plug wire before performing maintenance.
4. Thrown object hazard—keep bystanders away; shut off the engine before leaving the operating position; pick up any debris before mowing.
5. Cutting/dismemberment hazard of foot, mower blade—do not operate up and down slopes; operate side to side on slopes; look behind you when moving in reverse.

---




decal137-9196

**137-9196**

1. Lock
2. Unlock

---

# Setup

***Important:*** **Remove and discard the protective plastic sheet that covers the engine and any other plastic or wrapping on the machine.**

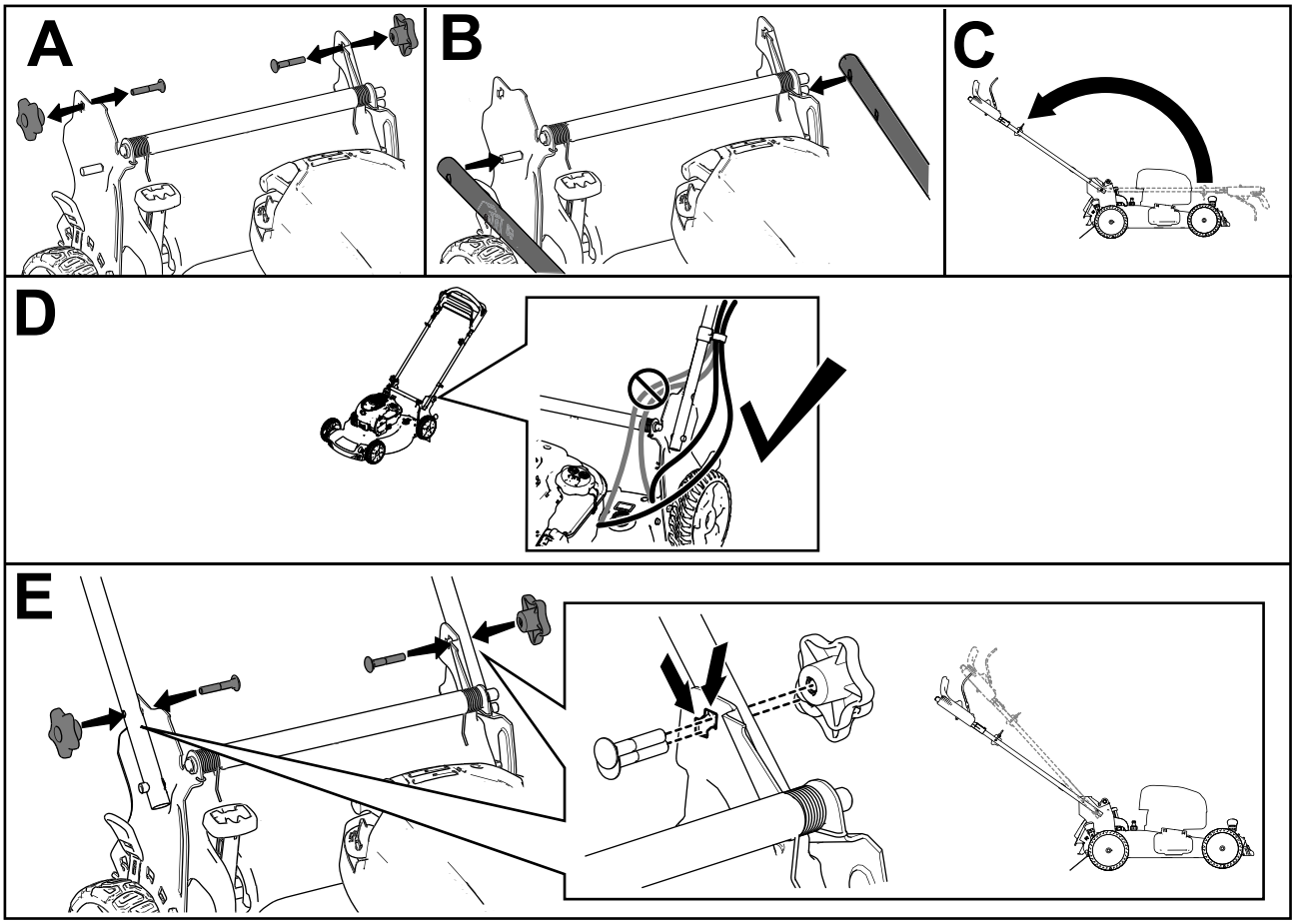
# 1

# Assembling and Unfolding the Handle

**No Parts Required**

## Procedure

**Note:** Ensure that the cables are routed on the outside of the handle and are not pinched (D of Figure 3).




g236451

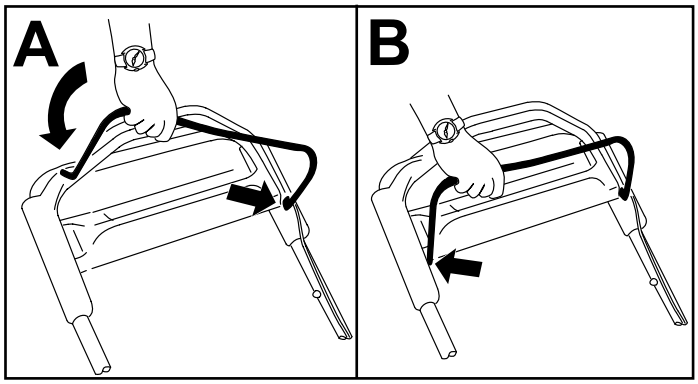
**Figure 3**

# 2

# Installing the Blade-Control Bar

**No Parts Required**

## Procedure




g235299

**Figure 4**

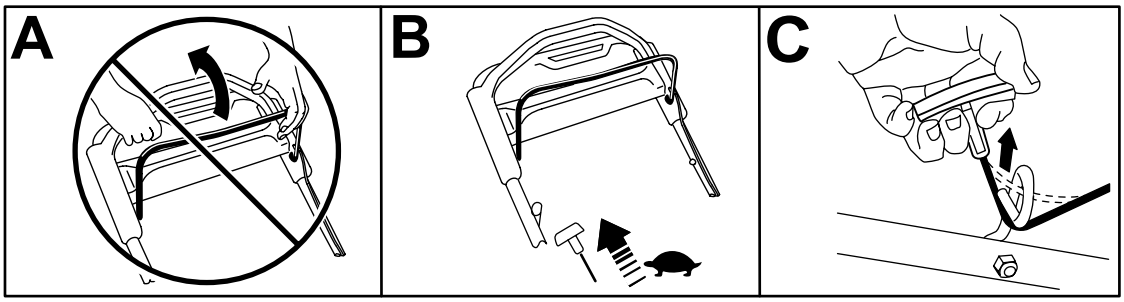
# 3

# Installing the Recoil-Starter Rope in the Rope Guide

**No Parts Required**

## Procedure

***Important:*** **To start the engine safely and easily whenever you use the machine, install the recoil-starter rope in the rope guide.**




g236533

**Figure 5**

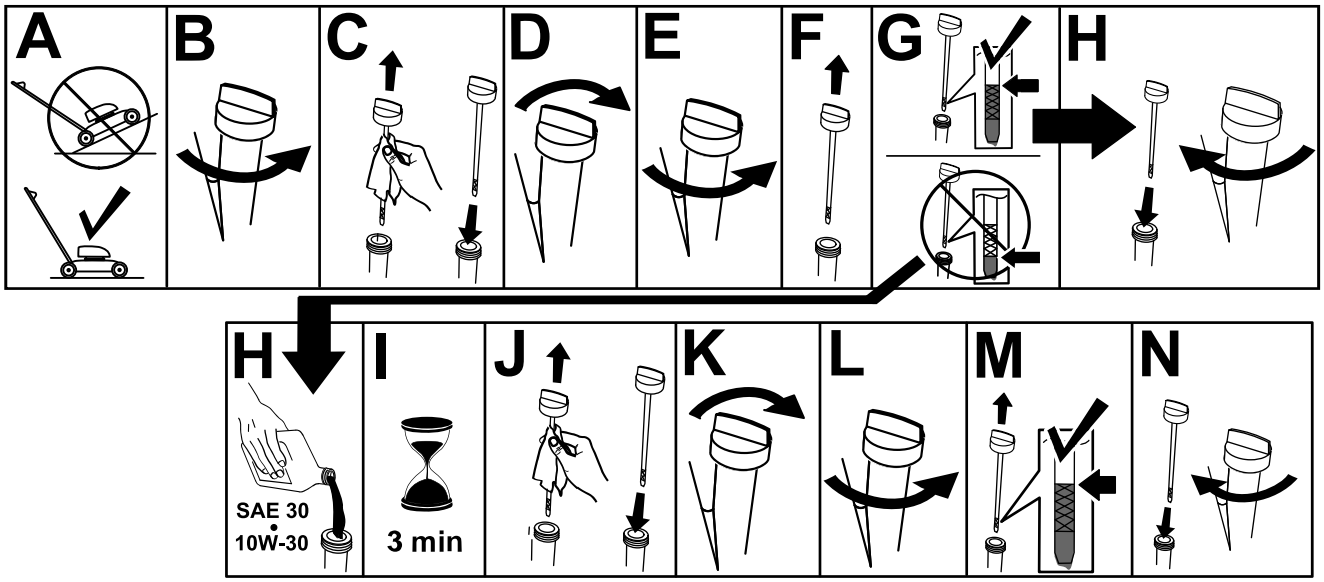
# 4

# Filling the Crankcase with Oil

**No Parts Required**

## Procedure

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




g222533

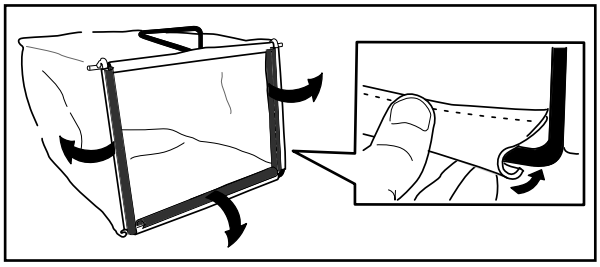
**Figure 6**

# 5

# Assembling the Grass Bag

**No Parts Required**

## Procedure



g230447

**Figure 7**

# Product Overview

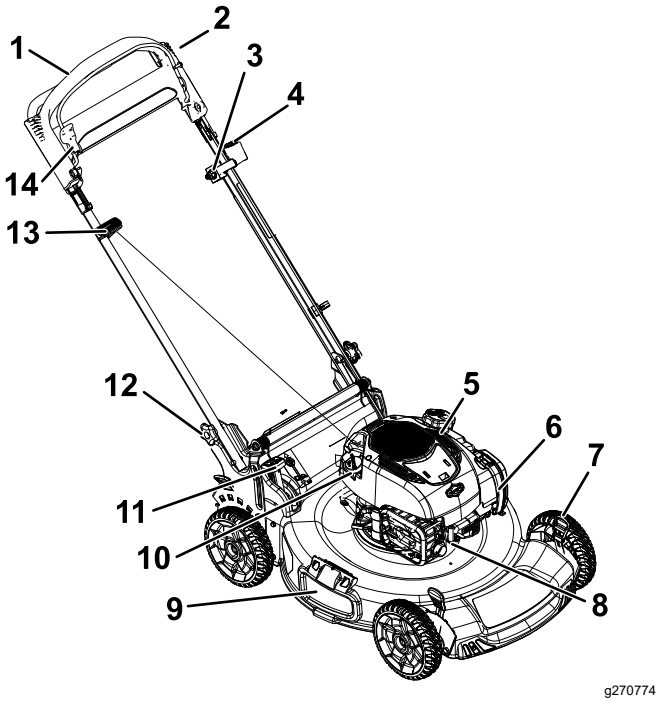



**Figure 8**

1. Handle
2. Blade-control bar
3. Adjustment for the self-propel drive
4. Ignition switch
5. Fuel-tank cap
6. Air filter
7. Cutting-height lever (4)
8. Spark plug
9. Side-discharge deflector
10. Oil fill/dipstick
11. Bag-on-demand lever
12. Handle knob (2)
13. Recoil-start handle
14. Control-bar lock

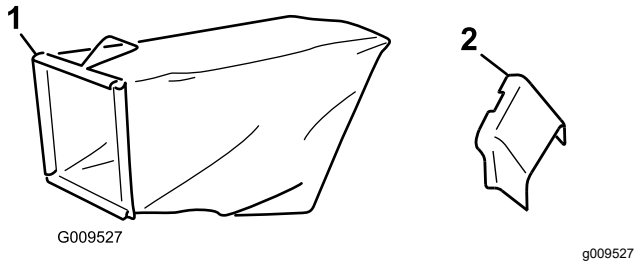



**Figure 9**

1. Grass bag
2. Side-discharge chute

# Specifications

| Model | Weight | Length | Width | Height |
|---|---|---|---|---|
| 20958 | 40 kg (89 lb) | 151 cm (59 inches) | 59 cm (23 inches) | 109 cm (43 inches) |

# Operation

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

# *Before Operation*

## Before Operation Safety

### General Safety

- Always shut off the machine, wait for all moving parts to stop, and allow the machine to cool before adjusting, servicing, cleaning, or storing it.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- Check that all guards and safety devices, such as deflectors and/or grass catcher, are in place and functioning properly.
- Always inspect the machine to ensure that the blades and blade bolts are not worn or damaged.
- Inspect the area where you will use the machine, and remove all objects that could interfere with the operation of the machine or that the machine could throw.
- Contact with the moving blade will cause serious injury. Do not put your fingers under the housing when adjusting the cutting height.

### Fuel Safety

- Fuel is extremely flammable and highly explosive. A fire or explosion from fuel can burn you and others and can damage property.
  - To prevent a static charge from igniting the fuel, place the container and/or machine directly on the ground before filling, not in a vehicle or on an object.
  - Fill the fuel tank outdoors, in an open area, when the engine is cold. Wipe up any fuel that spills.
  - Do not handle fuel when smoking or around an open flame or sparks.
  - Do not remove the fuel cap or add fuel to the tank while the engine is running or hot.
  - If you spill fuel, do not attempt to start the engine. Avoid creating a source of ignition until the fuel vapors have dissipated.
  - Store fuel in an approved container and keep it out of the reach of children.
- Fuel is harmful or fatal if swallowed. Long-term exposure to vapors can cause serious injury and illness.

– Avoid prolonged breathing of vapors.
– Keep your hands and face away from the nozzle and the fuel-tank opening.
– Keep fuel away from your eyes and skin.

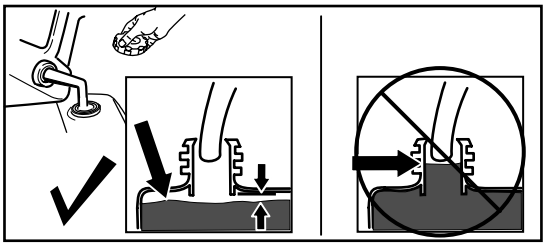
# Filling the Fuel Tank

- For best results, use only clean, fresh, unleaded gasoline with an octane rating of 87 or higher ((R+M)/2 rating method).
- Oxygenated fuel with up to 10% ethanol or 15% MTBE by volume is acceptable.
- **Do not** use ethanol blends of gasoline, such as E15 or E85, with more than 10% ethanol by volume. Performance problems and/or engine damage may result, which may not be covered under warranty.
- **Do not** use gasoline containing methanol.
- **Do not** store fuel either in the fuel tank or in fuel containers over the winter unless fuel stabilizer has been added to the fuel.
- **Do not** add oil to gasoline.

Fill the fuel tank with fresh unleaded regular gasoline from a major name-brand service station (Figure 10).

***Important:*** **To reduce starting problems, add fuel stabilizer/conditioner to fresh fuel as directed by the fuel-stabilizer manufacturer.**

Refer to your engine owner's manual for additional information.



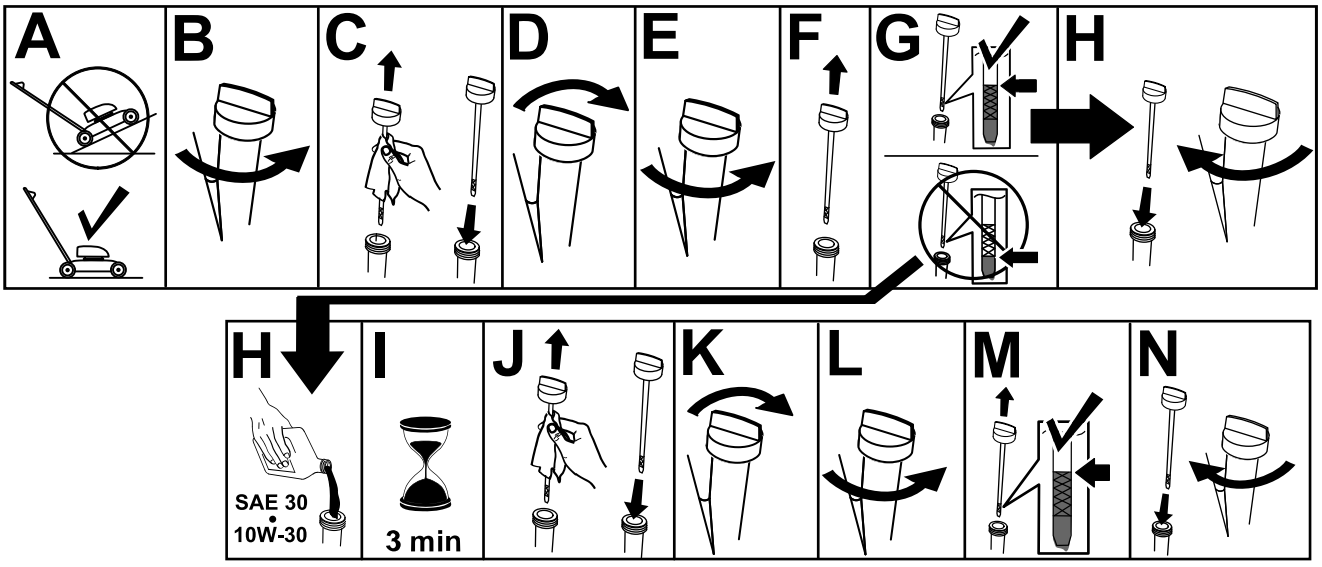
g230458

**Figure 10**

# Checking the Engine-Oil Level

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

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

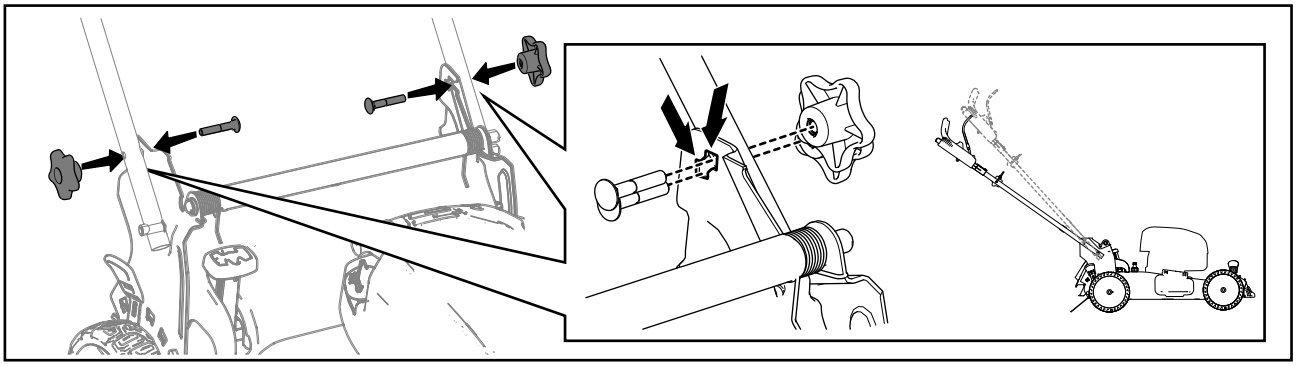



g231765

**Figure 11**

# Adjusting the Handle Height

You can raise or lower the handle in 1 of 2 positions that is more comfortable for you (Figure 12).



g269686

**Figure 12**

1. Remove both handle knobs.
2. Move the handle to the desired height position.
3. Secure the handle with the previously removed handle knobs.

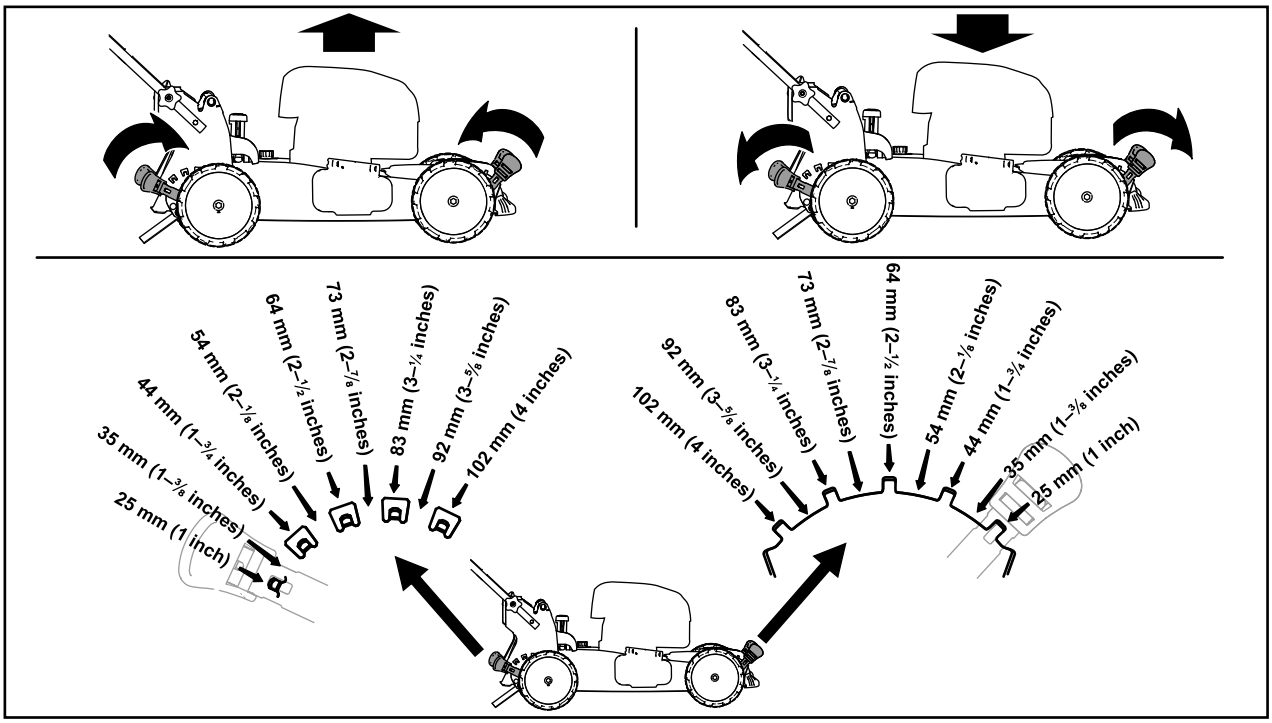
# Adjusting the Cutting Height

**⚠ 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 wheels to the same cutting height (Figure 13).




g254131

**Figure 13**

# *During Operation*

# During Operation Safety

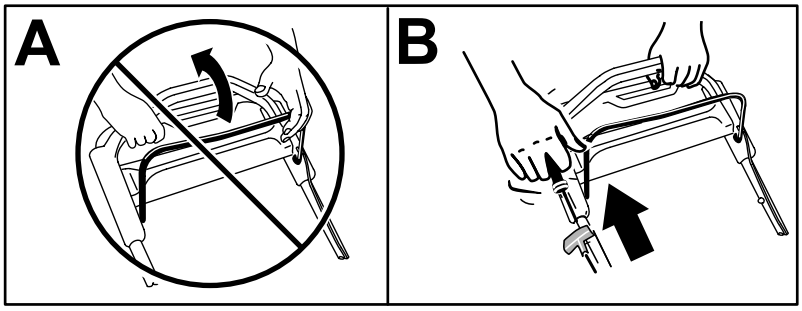
## General Safety

- Wear appropriate clothing, including eye protection; long pants; substantial, slip-resistant footwear; and hearing protection. Tie back long hair and do not wear loose clothing or loose jewelry.
- Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
- Do not operate the machine while ill, tired, or under the influence of alcohol or drugs.
- The blade is sharp; contacting the blade can result in serious personal injury. Shut off the engine and wait for all moving parts to stop before leaving the operating position.
- When you release the blade-control bar, the engine should shut off and the blade should stop within 3 seconds. If not, stop using your machine immediately and contact an Authorized Service Dealer.
- Keep bystanders out of the operating area. Keep small children out of the operating area and under the watchful care of a responsible adult who is not operating the machine. Stop the machine if anyone enters the area.
- Always look down and behind you before moving the machine in reverse.
- Operate the machine only in good visibility and appropriate weather conditions. Do not operate the machine when there is the risk of lightning.
- Wet grass or leaves can cause serious injury if you slip and contact the blade. Avoid mowing in wet conditions.
- Use extreme care when approaching blind corners, shrubs, trees, or other objects that may block your view.
- Do not direct the discharge material toward anyone. Avoid discharging material against a wall or obstruction; material may ricochet toward you. Stop the blade(s) when crossing gravel surfaces.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause you to lose your balance or footing.
- If the machine strikes an object or starts to vibrate, immediately shut off the engine, wait for all moving parts to stop, and disconnect the wire from the spark plug before examining the machine for damage. Make all necessary repairs before resuming operation.
- Before leaving the operating position, shut off the engine and wait for all moving parts to stop.
- If the engine has been running, it will be hot and can severely burn you. Keep away from the hot engine.
- Operate the engine only in well-ventilated areas. Exhaust gases contain carbon monoxide, which is lethal if inhaled.
- Check the grass catcher components and the discharge chute frequently for any wear or deterioration and replace them with genuine Exmark parts when necessary.

## Slope Safety

- Mow across the face of slopes; never up and down. Use extreme caution when changing direction on slopes.
- Do not mow on excessively steep slopes. Poor footing could cause a slip-and-fall accident.
- Mow with caution near drop-offs, ditches, or embankments.

# Starting the Engine



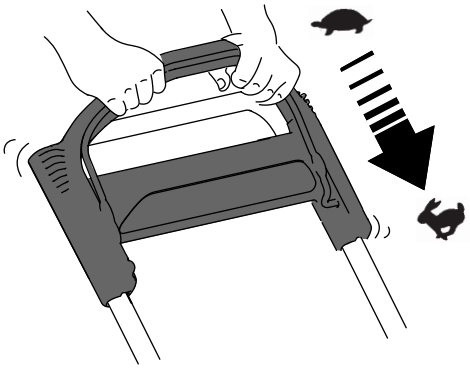

g236579

**Figure 14**

**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 15).



g233423

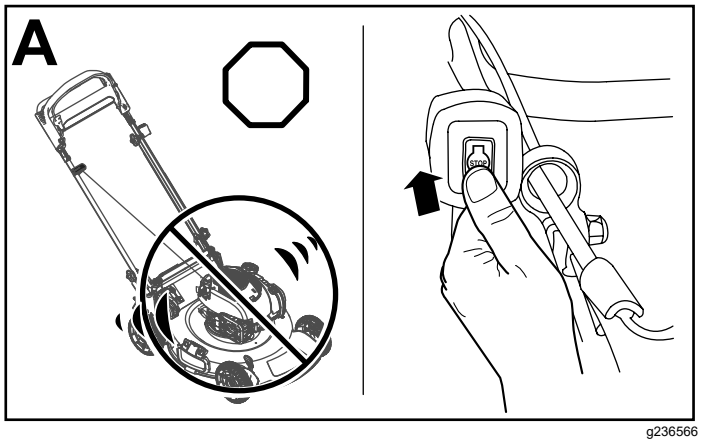
**Figure 15**

**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 centimeters (inches) forward to disengage the wheel drive. You can also try reaching just under the upper handle to the metal handle and pushing the machine forward a couple of centimeters (inches). If the machine still does not roll backward easily, contact an Authorized Service Dealer.

# Shutting Off the Engine

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

To shut off the engine, press and hold the engine-shutoff button (Figure 17) until the engine shuts off.



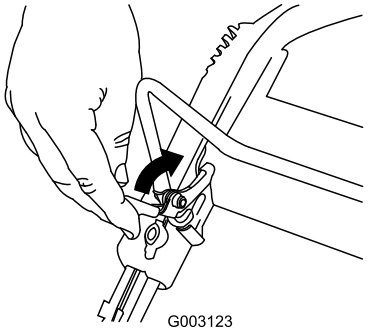

g236566

**Figure 16**

# Engaging the Blade

When you start your engine, the blade does not turn. You must engage the blade to mow.

1. Pull the control-bar lock back (Figure 17).

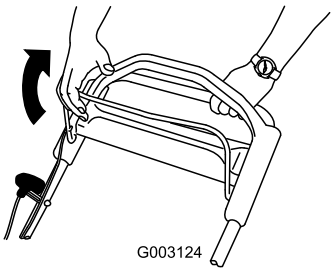


G003123

g003123

**Figure 17**

2. Pull the blade-control bar to the handle (Figure 18).

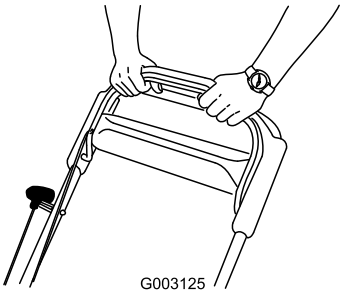


G003124

g003124

**Figure 18**

3. Hold the blade-control bar against the handle (Figure 19).



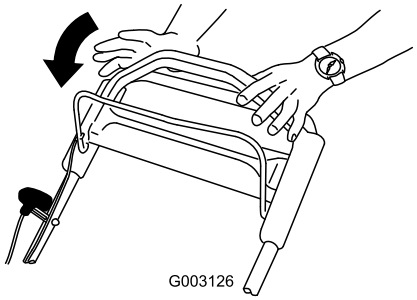
G003125

g003125

**Figure 19**

# Disengaging the Blade

Release the blade-control bar (Figure 20).




g003126

**Figure 20**

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

# Checking the Blade-Brake-Clutch Operation

Check the control bar before each use to ensure that the blade-brake-clutch system is operating properly.

## Using the Grass Bag

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

You can use the grass bag to perform an additional test to check the blade-brake clutch.

1. Install the empty grass bag on the machine.
2. Start the engine.
3. Engage the blade.

   **Note:** The bag should begin to inflate, indicating that the blade is engaged and rotating.
4. Release the blade-control bar.

   **Note:** If the bag does not immediately deflate, the blade is still rotating. The blade-brake clutch may be deteriorating and, if ignored, could result in an unsafe operating condition. Have the machine inspected and serviced by an Authorized Service Dealer.
5. Shut off the engine and wait for all moving parts to stop.

## Not Using the Grass Bag

1. Move the machine onto a paved surface in a non-windy area.
2. Set all 4 wheels to the 83 mm (3-1/4 inch) cutting-height setting.
3. Take a half sheet of newspaper and crumple it into a ball small enough to go under the machine housing (about 76 mm or 3 inches in diameter).
4. Place the newspaper ball about 13 cm (5 inches) in front of the machine.
5. Start the engine.
6. Engage the blade.
7. Release the blade-control bar.
8. Immediately push the machine over the newspaper ball.
9. Shut off the engine and wait for all moving parts to stop.
10. Go to the front of the machine and check the newspaper ball.

    **Note:** If the newspaper ball did not go under the machine, repeat steps 4 through 10.
11. If the newspaper is unravelled or shredded, the blade did not stop properly, which could result in an unsafe operating condition. 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 14). If the side-discharge chute is on the machine, remove it; refer to Removing the Side-Discharge Chute (page 15).

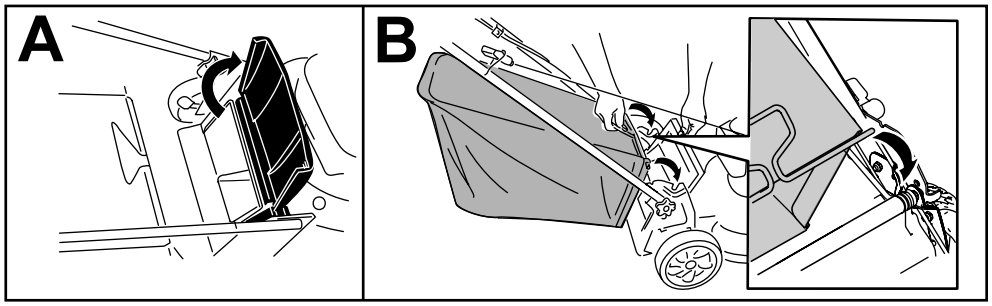
# Bagging the Clippings

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

If the side-discharge chute is on the machine, remove it; refer to Removing the Side-Discharge Chute (page 15). 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 14).

## Installing the Grass Bag

1. Raise and hold up the rear deflector (A of Figure 21).
2. Install the grass bag, ensuring that the pins on the bag rest in the notches on the handle (B of Figure 21).
3. Lower the rear deflector.




g233434

**Figure 21**

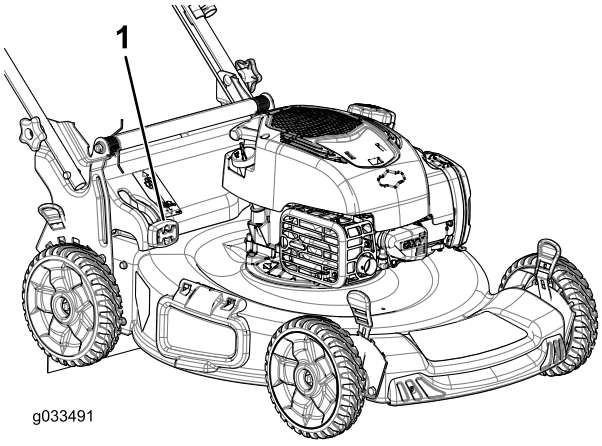
## Removing the Grass Bag

To remove the bag, reverse the steps in Installing the Grass Bag (page 14).

# 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.

- **To bag 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 22).




g033491

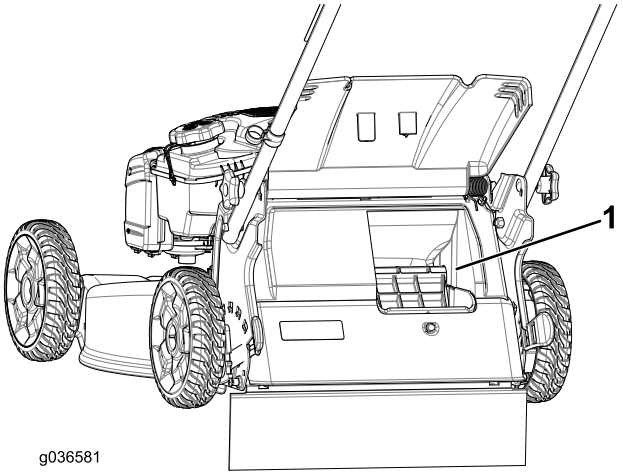
g033491

**Figure 22**

1. Bag-on-demand lever (in the bagging position)

- **To recycle or side-discharge 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, shut off the engine, wait for all moving parts to stop, and then remove any grass clippings and debris from the bag-on-demand door and the surrounding opening (Figure 23) before you move the bag-on-demand lever from 1 position to another.**




g036581

g036581

**Figure 23**

1. Clean here

# Side-Discharging the Clippings

Use side-discharging 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 14).

## Installing the Side-Discharge Chute

Unlatch and lift up the side deflector and install the side-discharge chute (Figure 24).

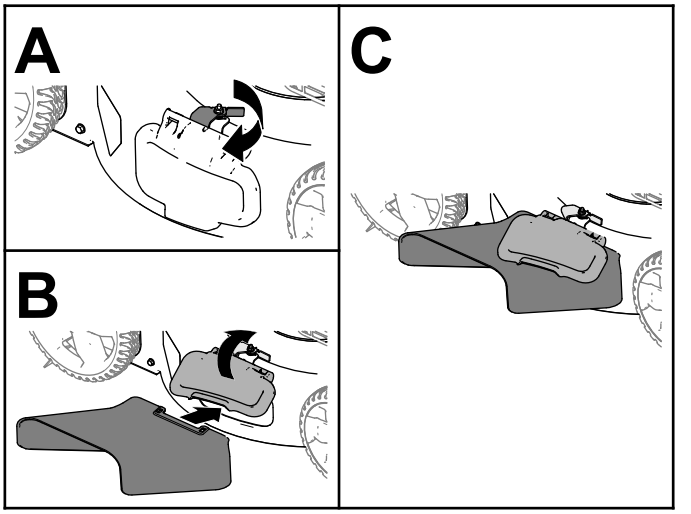



**Figure 24**

## 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 until it latches securely.

# Operating Tips

## General Mowing Tips

- Inspect the area where you will use the machine and remove all objects that the machine could throw.
- Avoid striking solid objects with the blade. Never deliberately mow over any object.
- If the machine strikes an object or starts to vibrate, immediately shut off the engine, remove the key (if equipped), 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 51 mm (2 inches) unless the grass is sparse or it is late fall when grass growth begins to slow down.
- When cutting grass over 15 cm (6 inches) 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.
- Wet grass and leaves tend to clump on the yard and can cause the machine to plug or the engine to stall. Avoid mowing in wet 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 1 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.

## 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 a single pass over the leaves.
- If there are more than 13 cm (5 inches) of leaves on the lawn, mow at a higher cutting height and then again at the desired cutting height.
- Slow down your mowing speed if the machine does not cut the leaves finely enough.

# *After Operation*

# After Operation Safety

## General Safety

- Always shut off the machine, wait for all moving parts to stop, and allow the machine to cool before adjusting, servicing, cleaning, or storing it.
- Clean grass and debris from the machine to help prevent fires. Clean up oil or fuel spills.
- 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.

## Hauling Safety

- Use care when loading or unloading the machine.
- Secure the machine from rolling.

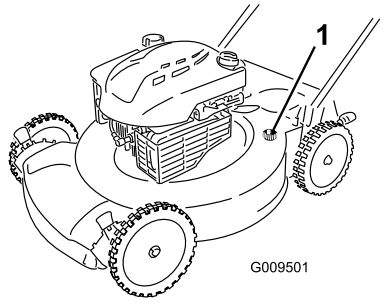
# Cleaning under the Machine

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

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

1. Move the machine onto a flat paved surface.
2. Shut off the engine and wait for all moving parts to stop before leaving the operating position.
3. Lower the machine to its lowest cutting-height setting. Refer to Adjusting the Cutting Height (page 10).
4. Wash out the area under the rear door where the clippings go from the underside of the machine to the grass bag.

   **Note:** Wash out the area with the bag-on-demand (if equipped) in both the fully forward and fully rearward positions.
5. Attach a garden hose that is connected to a water supply to the washout port (Figure 25).




g009501

**Figure 25**

1. Washout port

6. Turn the water on.
7. Start the engine and run it until the clippings no longer come out from under the machine.
8. Shut off the engine.
9. Shut off the water and disconnect the garden hose from the machine.
10. Start the engine and run it for a few minutes to dry the underside of the machine to prevent it from rusting.
11. Shut off the engine and allow it to cool before storing the machine in an enclosed area.

# 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. Remove and save the 2 handle knobs and 2 carriage bolts from the handle brackets (Figure 26).

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

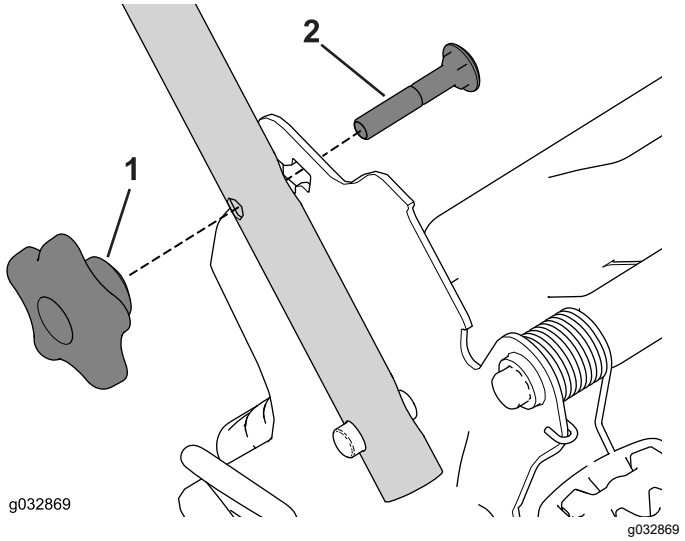



**Figure 26**

1. Handle knob
2. Carriage bolt

2. Fold the handle by rotating it forward (Figure 27).

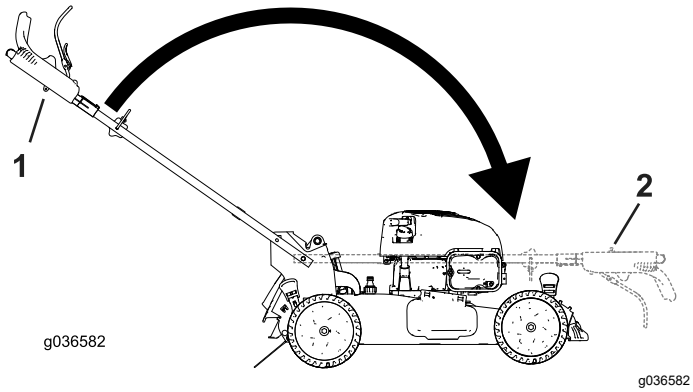



**Figure 27**

1. Operating position
2. Folded position

3. Insert the carriage bolt (with the bolt head toward the inside) through the handle bracket and the upper hole in the handle end. Ensure that the square edges of each carriage bolt fits into the upper or lower square hole in its related handle bracket (Figure 28).

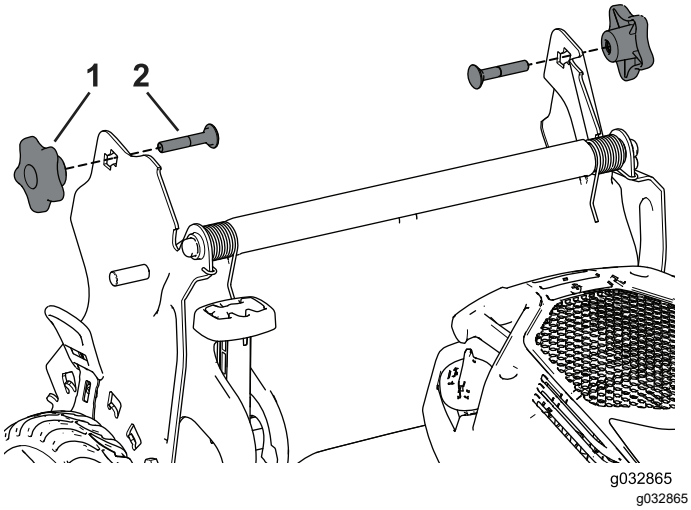



**Figure 28**

1. Handle knob
2. Carriage bolt

4. Loosely install the handle knobs and carriage bolts on the handle brackets.
5. To unfold the handle, refer to 1 Assembling and Unfolding the Handle (page 5).

# Maintenance

## Recommended Maintenance Schedule(s)

| Maintenance Service Interval | Maintenance Procedure |
|---|---|
| Before each use or daily | • Check the engine-oil level and add oil as needed.<br>• Ensure that the blade stops within 3 seconds after releasing the blade-control bar.<br>• Check the blade-brake-clutch operation.<br>• Clean grass clippings and dirt from under the machine. |
| Every 25 hours | • Service the air filter; service it more frequently in dusty operating conditions.<br>• Clean the blade-brake-clutch shield. |
| Yearly | • Replace the air filter; replace it more frequently in dusty operating conditions.<br>• Change the engine oil (if desired).<br>• Replace the blade or have it sharpened (more frequently if the edge dulls quickly).<br>• Clean the engine by removing dirt and debris from its top and sides; clean it more frequently in dusty operating conditions. |
| Yearly or before storage | • Empty the fuel tank before repairs as directed and before yearly storage. |

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

## Maintenance Safety

- Disconnect the spark-plug wire from the spark plug before performing any maintenance procedure.
- Wear gloves and eye protection when servicing the machine.
- The blade is sharp; contacting the blade can result in serious personal injury. Wear gloves when servicing the blade. Do not repair or alter the blade(s).
- Never tamper with safety devices. Check their proper operation regularly.
- Tipping the machine may cause the fuel to leak. Fuel is flammable and explosive, and can cause personal injury. Run the engine dry or remove the fuel with a hand pump; never siphon the fuel.
- To ensure optimum performance of the machine, use only genuine Exmark replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

## Preparing for Maintenance

1. Shut off the engine and wait for all moving parts to stop.
2. Disconnect the spark-plug wire from the spark plug (Figure 29).

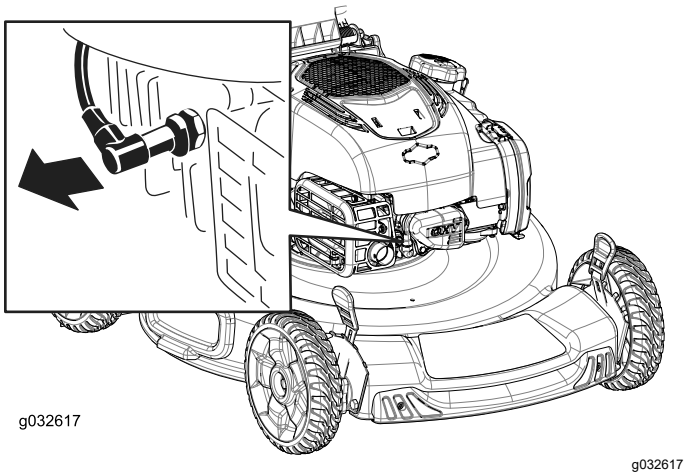



**Figure 29**

1. Spark-plug wire

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 hand fuel pump to remove**

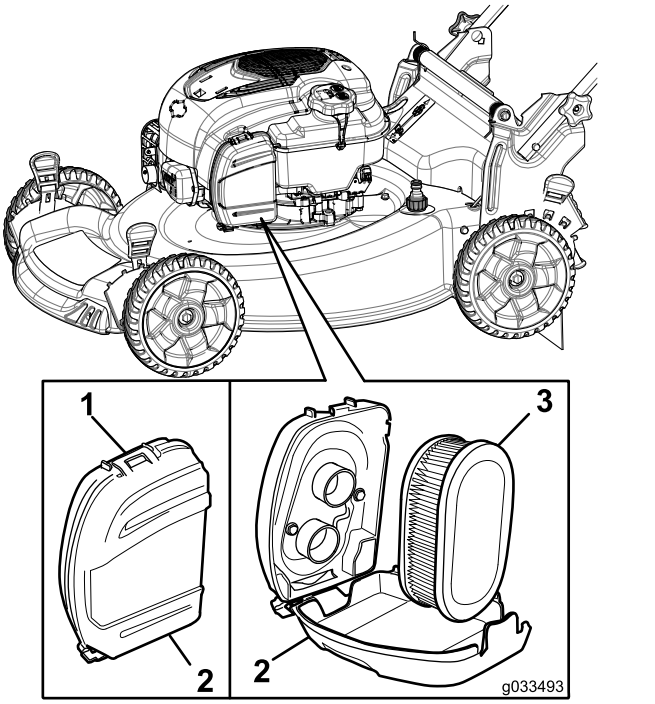
**the fuel. Always tip the machine onto its side, with the dipstick down.**

# Servicing the Air Filter

**Service Interval:** Every 25 hours

Yearly

1. Unclip the top of the air-filter cover (Figure 30).




g033493

**Figure 30**

1. Clip
2. Air-filter cover
3. Air filter

2. Remove the air filter (Figure 30).
3. Inspect the air filter.

   **Note:** If the air filter is excessively dirty, replace it with a new filter. Otherwise, gently tap the air filter on a hard surface to loosen debris.
4. Install the air filter.
5. Use the clip to install the air-filter cover.

# Changing the Engine Oil

**Service Interval:** Yearly

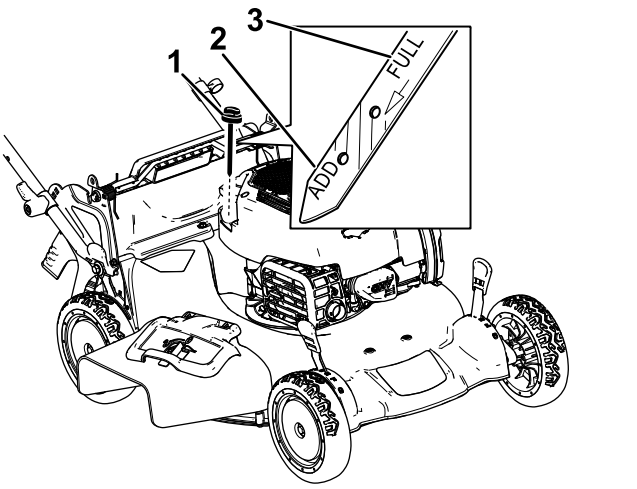
**Changing the engine oil is not required, but if you want to change the oil, use the following procedure.**

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

## Engine Oil Specifications

| | |
|---|---|
| **Engine oil capacity** | 0.44 L (15 fl oz) |
| **Oil viscosity** | SAE 30 or SAE 10W-30 detergent oil |
| **API service classification** | SJ or higher |

1. Move the machine to a level surface.
2. Refer to Preparing for Maintenance (page 18).
3. Remove the dipstick by rotating the cap counterclockwise and pulling it out (Figure 31).

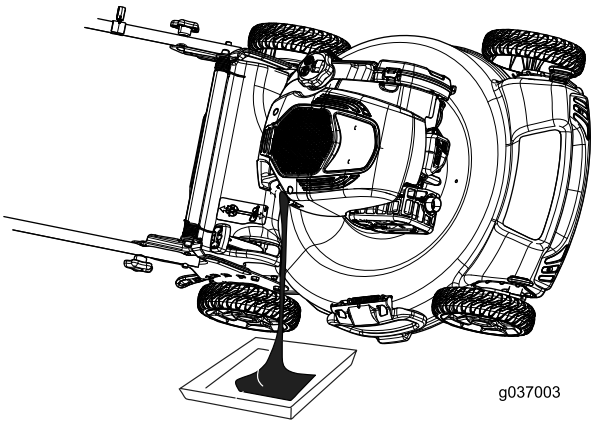



g187518

**Figure 31**

1. Dipstick
2. Add
3. Full

4. Tip the machine onto its side (so that the air filter is up) to drain the used oil from the oil-fill tube (Figure 32).



g037003

g037003

**Figure 32**

5. After draining the used oil, return the machine to the operating position.
6. Carefully pour about 3/4 of the engine capacity of oil into the oil-fill tube.
7. Wait 3 minutes for the oil to settle in the engine.
8. Wipe the dipstick clean with a clean cloth.
9. Insert the dipstick into the oil-fill tube, then remove the dipstick.
10. Read the oil level on the dipstick (Figure 31).
    - If the oil level on the dipstick is too low, carefully pour a small amount of oil into the oil-fill tube, wait 3 minutes, and repeat steps 8 through 10 until the oil level on the dipstick is correct.
    - If the oil level on the dipstick is too high, drain the excess oil until the oil level on the dipstick is correct.

    ***Important:*** **If the oil level in the engine is too low or too high and you run the engine, you may damage the engine.**
11. Install the dipstick into the oil-fill tube securely.
12. Recycle the used oil properly.

# Replacing the Blade

**Service Interval:** Yearly—Replace the blade or have it sharpened (more frequently if the edge dulls quickly).

***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 fuel. 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.

**⚠ WARNING**

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

**Wear gloves when servicing the blade.**

1. Disconnect the spark-plug wire from the spark plug; refer to Preparing for Maintenance (page 18).
2. Tip the machine onto its side with the air filter up.
3. Remove the 2 blade nuts and the stiffener (Figure 33).

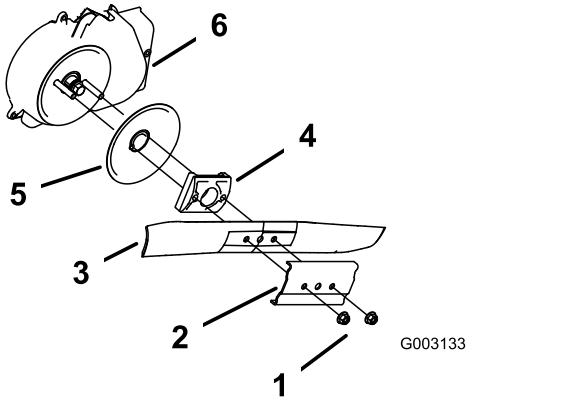



**Figure 33**

1. Blade nuts
2. Stiffener
3. Blade
4. Blade driver
5. Anti-scalp disk
6. Blade-stop system shield

4. Remove the blade (Figure 33).
5. Install the new blade (Figure 33).
6. Install the stiffener you previously removed.
7. **Install the blade nuts and torque them to 20 to 37 N·m (15 to 27 ft-lb).**

# Cleaning the Blade-Brake-Clutch Shield

**Service Interval:** Every 25 hours

Clean the blade-brake-clutch shield yearly to prevent the blade from stalling while you mow.

1. Disconnect the spark-plug wire from the spark plug; refer to Preparing for Maintenance (page 18).
2. Tip the machine onto its side with the dipstick down.
3. Remove the 2 blade nuts and the stiffener (Figure 34).

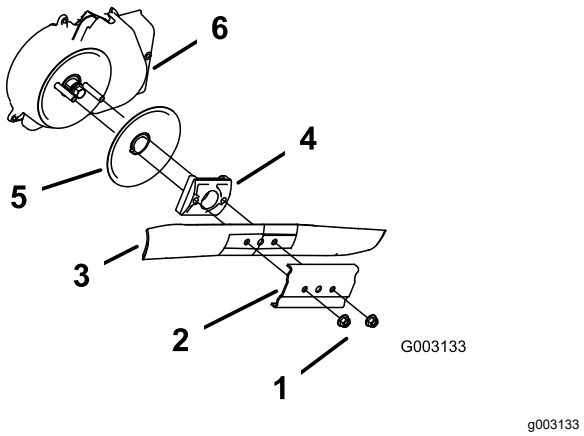



**Figure 34**

1. Blade nuts
2. Stiffener
3. Blade
4. Blade driver
5. Disk
6. Blade-brake-clutch shield

4. Remove the blade (Figure 34).
5. Remove the blade driver and disk (Figure 34).
6. Remove the blade-brake-clutch shield (Figure 34).
7. Brush or blow out debris from the inside of the shield and around all the parts.
8. Install the blade-brake-clutch shield that you previously removed.
9. Install the blade driver and disk that you previously removed.
10. Install the blade and the stiffener that you previously removed (Figure 34).
11. Install the blade nuts and torque them to 20 to 37 N·m (15 to 27 ft-lb).

# Adjusting the Self-Propel Drive

## For Self-Propel-Drive 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.

1. Turn the adjustment nut counterclockwise to loosen the cable adjustment (Figure 35).

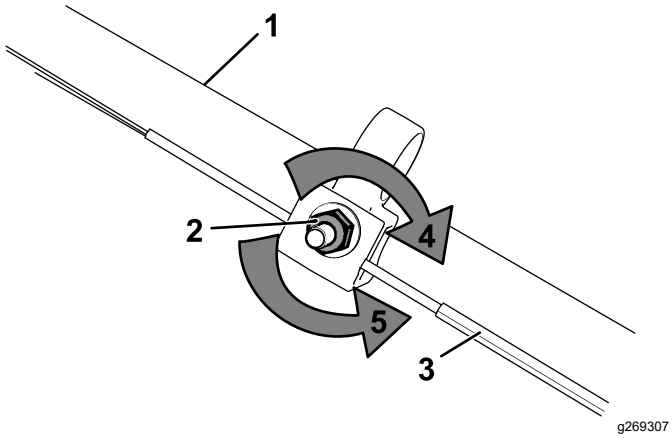



**Figure 35**

1. Handle (left side)
2. Adjustment nut
3. Self-propel-drive cable
4. Turn the nut clockwise to tighten the adjustment.
5. Turn the nut counterclockwise to loosen the adjustment.

2. Adjust the tension on the cable (Figure 35) by pulling it back or pushing it forward and holding that position.

   **Note:** Push the cable toward the engine to increase the traction; pull the cable away from the engine to decrease the traction.

3. Turn the adjustment nut clockwise to tighten the cable adjustment.

   **Note:** Tighten the nut firmly with a socket or wrench.

# Storage

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

## Storage Safety

Always shut off the machine, wait for all moving parts to stop, and allow the machine to cool before adjusting, servicing, cleaning, or storing it.

## Preparing the Machine for Storage

1. On the last refueling of the year, add fuel stabilizer (such as Toro Premium Fuel Treatment) to the fuel as directed on the label.
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 fuel stabilizer more than 30 days, and do not store stabilized fuel more than 90 days.
3. Run the machine until the engine shuts off from running out of fuel.
4. Start the engine again and allow it to run until it shuts off. When you can no longer start the engine, it is sufficiently dry.
5. Disconnect the wire from the spark plug and connect the wire to the retaining post (if equipped).
6. Remove the spark plug, add 30 ml (1 fl oz) of engine 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. Loosely install the spark plug.
8. Tighten all nuts, bolts, and screws.

## Removing the Machine from Storage

1. Check and tighten all fasteners.
2. Remove the spark plug and spin the engine rapidly by pulling the recoil-start handle to blow the excess oil from the cylinder.
3. Install the spark plug and tighten it with a torque wrench to 20 N·m (15 ft-lb).
4. Perform any maintenance procedures; refer to Maintenance (page 18).
5. Check the engine-oil level; refer to Checking the Engine-Oil Level (page 9).
6. Fill the fuel tank with fresh fuel; refer to Filling the Fuel Tank (page 9).
7. Connect the wire to the spark plug.

# EEA/UK Privacy Notice

**Toro's Use of Your Personal Information**

The Toro Company ("Toro") respects your privacy. When you purchase our products, we may collect certain personal information about you, either directly from you or through your local Toro company or dealer. Toro uses this information to fulfil contractual obligations - such as to register your warranty, process your warranty claim or to contact you in the event of a product recall - and for legitimate business purposes - such as to gauge customer satisfaction, improve our products or provide you with product information which may be of interest. Toro may share your information with our subsidiaries, affiliates, dealers or other business partners in connection these activities. We may also disclose personal information when required by law or in connection with the sale, purchase or merger of a business. We will never sell your personal information to any other company for marketing purposes.

**Retention of your Personal Information**

Toro will keep your personal information as long as it is relevant for the above purposes and in accordance with legal requirements. For more information about applicable retention periods please contact legal@toro.com.

**Toro's Commitment to Security**

Your personal information may be processed in the US or another country which may have less strict data protection laws than your country of residence. Whenever we transfer your information outside of your country of residence, we will take legally required steps to ensure that appropriate safeguards are in place to protect your information and to make sure it is treated securely.

**Access and Correction**

You may have the right to correct or review your personal data, or object to or restrict the processing of your data. To do so, please contact us by email at legal@toro.com. If you have concerns about the way in which Toro has handled your information, we encourage you to raise this directly with us. Please note that European residents have the right to complain to your Data Protection Authority.