Form No. 3359-177 Rev B

21in Super Recycler® Lawn Mower

Model No. 20093—Serial No. 280000001 and Up
Model No. 20093C—Serial No. 280000001 and Up

Operator's Manual

Introduction

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

You may contact Toro directly at www.Toro.com for product and accessory information, help finding a dealer, or to register your product.

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

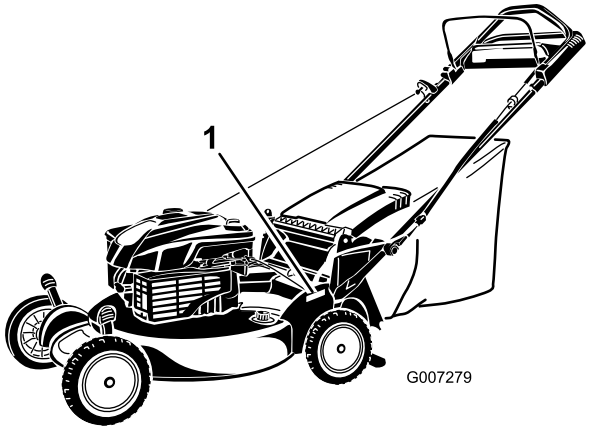


Figure 1

1. Model and serial number plate

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

Model No. _____

Serial No. _____

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

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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 can amputate hands and feet and throw 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.
- 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.

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.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.



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

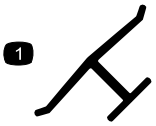
Do not run the engine indoors or in an enclosed area.

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.**



Manufacturer's Mark

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

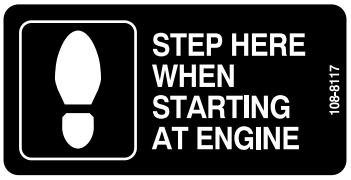


94-8072



112-8867

1. Lock
2. Unlock



108-8117



114-7982

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—remove the ignition key and read the instructions before servicing or performing maintenance.
4. Cutting/dismemberment hazard of hand or foot, mower blade—stay away from moving parts.
5. Cutting/dismemberment hazard of hand or foot, mower blade—do not operate up and down slopes; operate side to side on slopes; stop the engine before leaving the operating position; and look behind you when backing up.

Setup

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

1. Installing the Blade Control Bar

Procedure

Install the blade control bar into the upper handle (Figure 3).

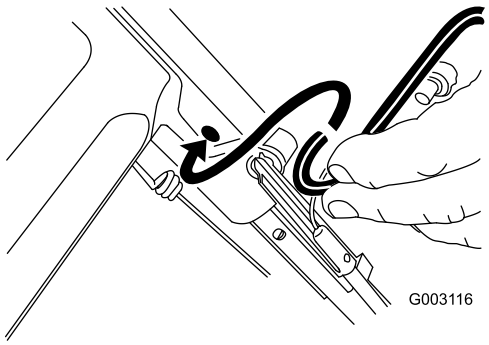


Figure 3

2. Assembling and Unfolding the Handle

Procedure

Assembling and unfolding the handle improperly can damage the cables, causing an unsafe operating condition.

- **Do not damage the cables when assembling and unfolding the handle.**
- **Ensure that the cables are routed to the outside of the handle.**
- **If a cable is damaged, contact an Authorized Service Dealer.**

1. Raise the rear of the mower housing to its highest cutting height setting by moving the 2 rear cutting height levers all the way forward. Refer to Adjusting the Cutting Height in the Operation section.
2. Attach the handle ends to the mower housing with 2 washers and 2 handle bolts (Figure 4), **but do not tighten the handle bolts.**

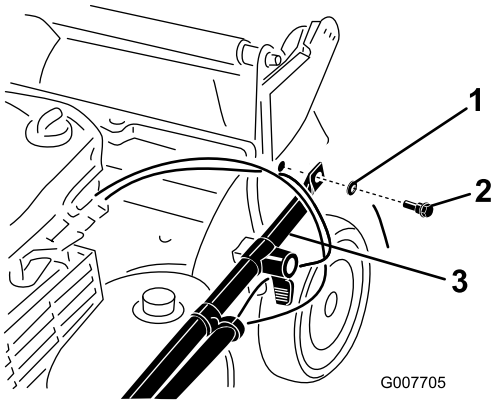


Figure 4

1. Washer
2. Handle bolt
3. Handle end

Important: Route the cables to the *outside* of the handle (Figure 4).

3. Rotate the handle rearward (Figure 5).

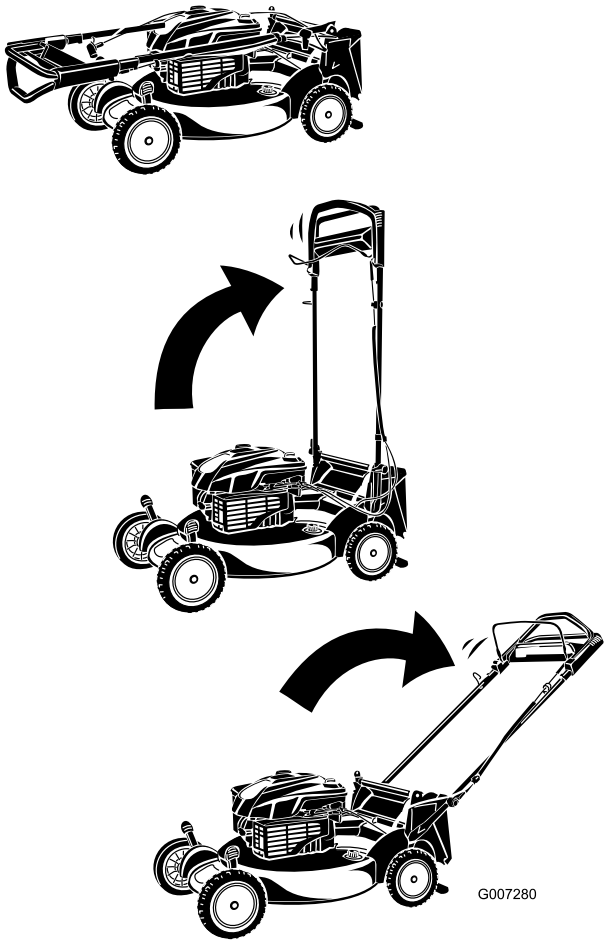


Figure 5

4. Lock the handle at your desired height. Refer to Adjusting the Handle Height in the Operation section.

5. Torque the handle bolts to 120 to 160 in-lb (14 to 17 N·m).
6. Adjust the cutting height. Refer to Adjusting the Cutting Height.

3. Installing the Starter Rope

Procedure

Pull the starter rope through the rope guide on the handle (Figure 6).

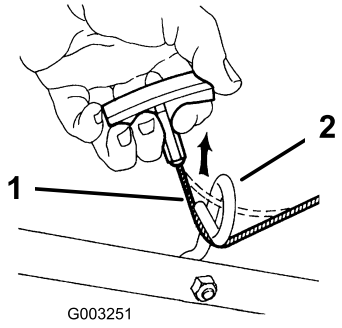


Figure 6

1. Starter rope
2. Rope guide

Note: To make the rope easier to install, squeeze the control bar on the handle.

4. Filling the Engine with Oil

Procedure

Your mower does not come with oil in the engine.

1. Remove the dipstick (Figure 7).

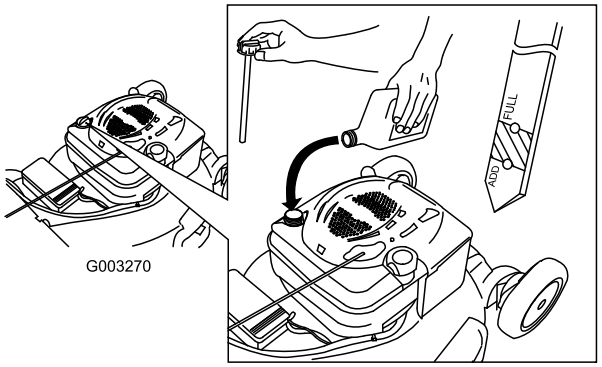


Figure 7

2. **Slowly** pour oil into the oil fill tube until the oil level reaches the Full line on the dipstick (Figure 7). **Do not overfill.** (Max. fill: 20 oz. (0.59 l), type: SAE 30W detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.)
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.**

Product Overview

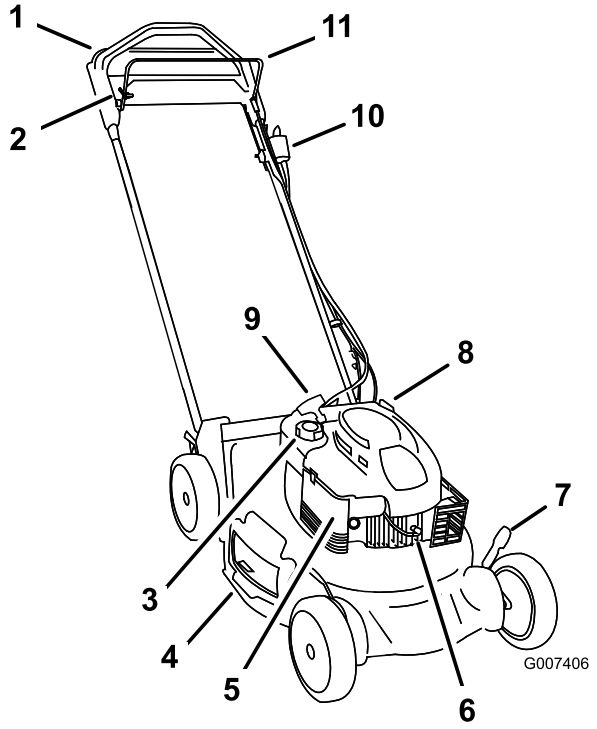


Figure 8

1. Upper handle
2. Control bar lock
3. Fuel tank cap
4. Side discharge
5. Air filter
6. Spark plug
7. Cutting height lever (4)
8. Oil fill/Dipstick
9. Recoil start handle
10. Ignition switch
11. Blade control bar

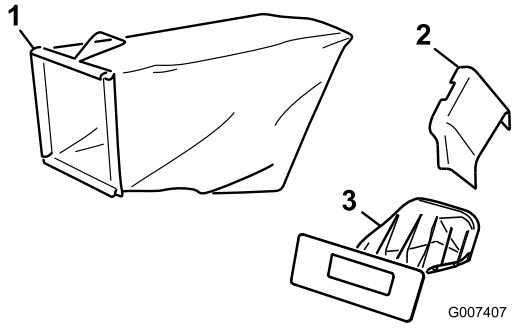


Figure 9

1. Grass bag
2. Side discharge chute
3. Rear discharge plug (installed)

Operation

Filling the Fuel Tank

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 10).

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

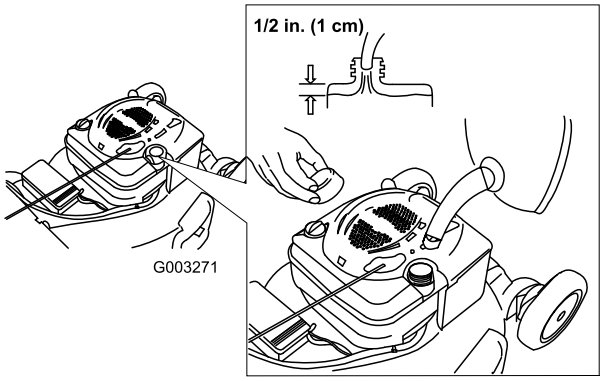


Figure 10

Checking the Engine Oil Level

Service Interval: Before each use or daily

1. Remove the dipstick, wipe it clean, and fully install the dipstick (Figure 11).

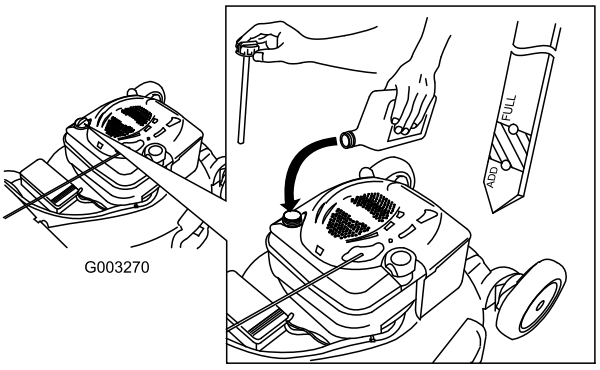


Figure 11

2. Remove the dipstick and check the oil level (Figure 11). 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: 20 oz. (0.59 l), type: SAE 30W detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.)
3. Install the dipstick.

Adjusting the Cutting Height

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.**

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 4 cutting height levers forward; to lower the mower, move them all rearward (Figure 12).

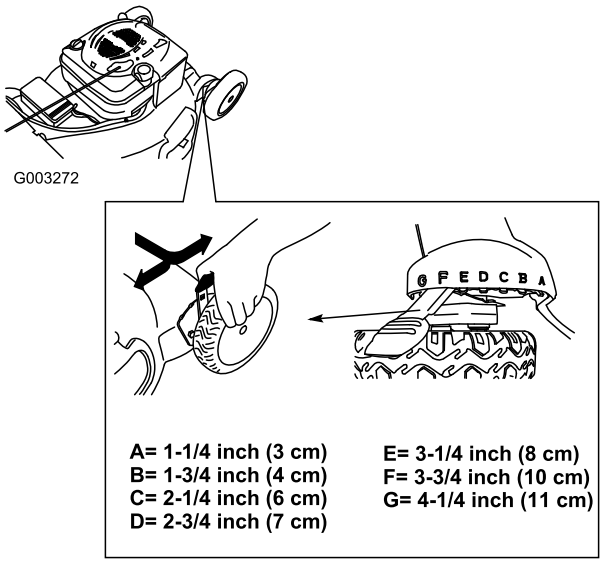


Figure 12

Adjusting the Handle Height

You may raise or lower the handle to a position comfortable for you.

Rotate the handle lock, move the handle to one of three positions, and lock the handle into position (Figure 13).

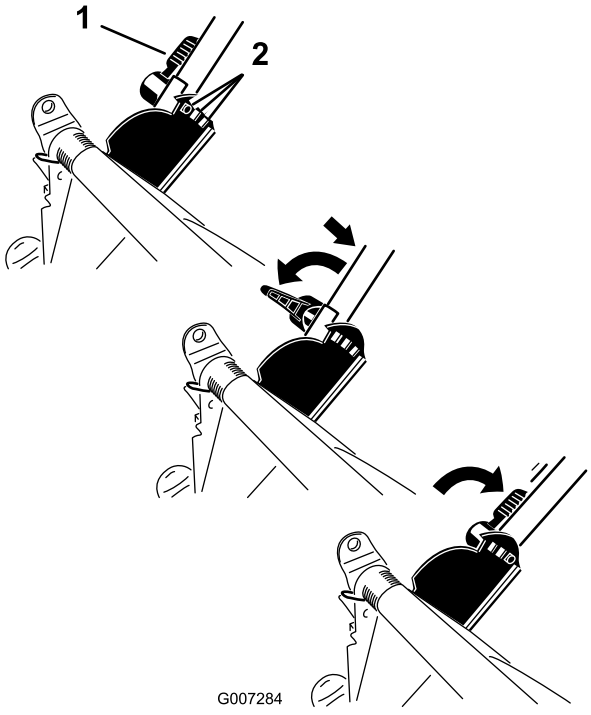


Figure 13

1. Handle lock
2. Handle positions

Starting the Engine

1. Push the ignition toggle switch to the On ("I") position (Figure 14).

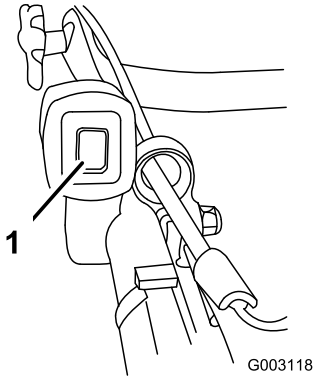


Figure 14

1. Ignition toggle switch

2. Start the engine in one of 2 ways:
   - Pull the recoil starter in the operating position (Figure 15).

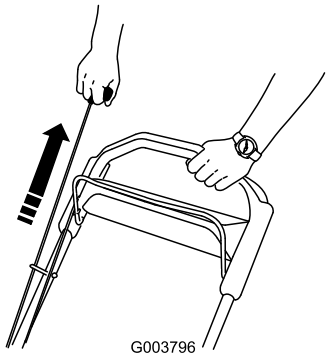


Figure 15

   - Pull the recoil starter at the engine (Figure 16).

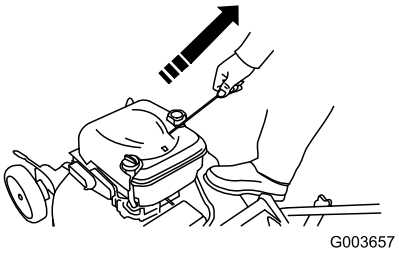


Figure 16

Note: If the mower does not start, 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 mower will automatically keep pace with you (Figure 17).

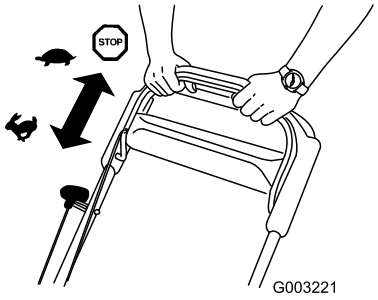


Figure 17

Stopping the Engine

1. Push the ignition toggle switch to the Stop position (Figure 18).

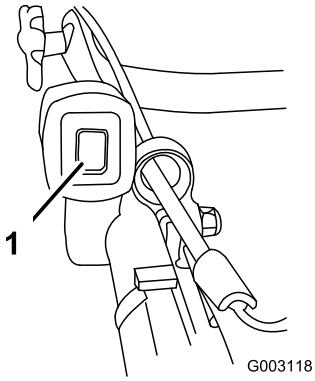


Figure 18

1. Ignition toggle switch

2. When the engine stops, remove the ignition key when you leave the mower.

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 19).

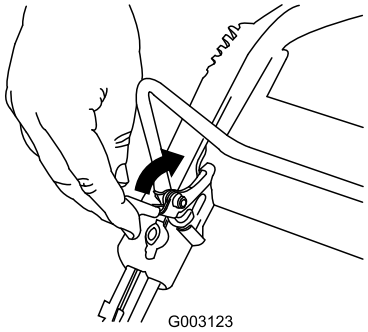


Figure 19

2. Pull the blade control bar to the handle (Figure 20).

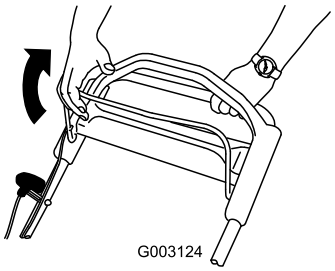


Figure 20

1. Blade control bar

3. Hold the blade control bar against the handle (Figure 21).

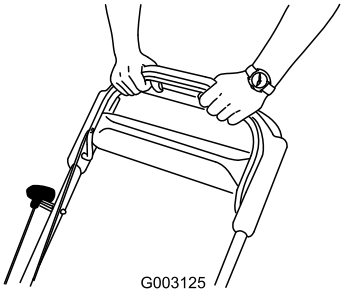


Figure 21

Disengaging the Blade

Release the blade control bar (Figure 22).

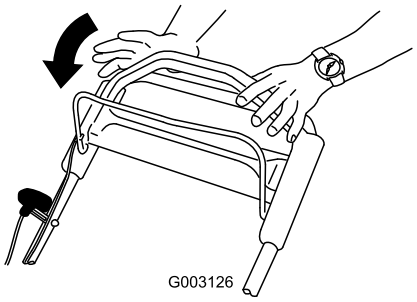


Figure 22

Important: When you release the blade control bar, the blade should stop within 3 seconds. If it does not stop properly, stop using your mower 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 mower.
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 mower inspected and serviced by an Authorized Service Dealer.
5. Stop the engine and wait for all moving parts to stop.

Not Using the Grass Bag

1. Move the mower onto a paved surface in a non-windy area.
2. Set all 4 wheels to the 3-1/4 inch (8 cm) cut setting.
3. Take a half sheet of newspaper and crumple it into a ball small enough to go under the mower housing (about 3 inches or 7.6 cm in diameter).
4. Place the newspaper ball about 5 inches (13 cm) in front of the mower.
5. Start the engine.
6. Engage the blade.
7. Release the blade control bar.
8. Immediately push the mower over the newspaper ball.
9. Stop the engine and wait for all moving parts to stop.
10. Go to the front of the mower and check the newspaper ball.

    Note: If the newspaper ball did not go under the mower, 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 mower comes from the factory ready to recycle 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 recycling the clippings. If the side discharge chute is on the mower, remove it and lock the side discharge door (refer to Removing the Side Discharge Chute) before recycling the clippings.

Important: Ensure that the rear discharge plug is securely in place. Lift up the discharge deflector and look for 2 tabs in front of the plug (Figure 23). If you do not see them, firmly push the plug in until it snaps into place (Figure 24).

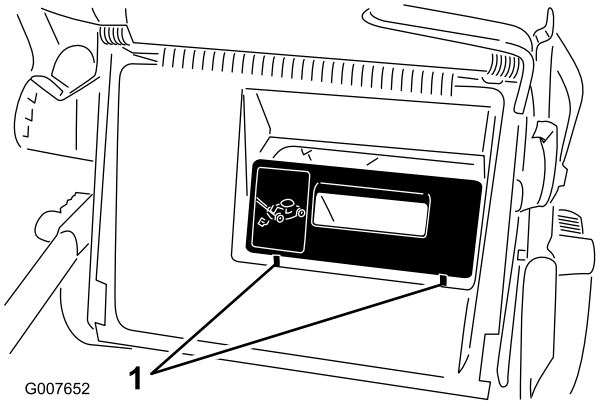


Figure 23

1. Tabs

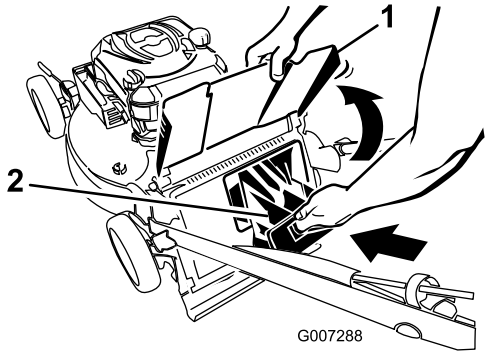


Figure 24

1. Discharge deflector 2. Rear discharge plug

Bagging the Clippings

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

A worn grass bag could allow debris to be thrown and result in serious personal injury or death to the operator or bystanders.

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

If the side discharge chute is on the mower, remove it and lock the side discharge door (refer to Removing the Side Discharge Chute) before bagging the clippings.

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. Route the starter rope around the lower rope guide (Figure 25).

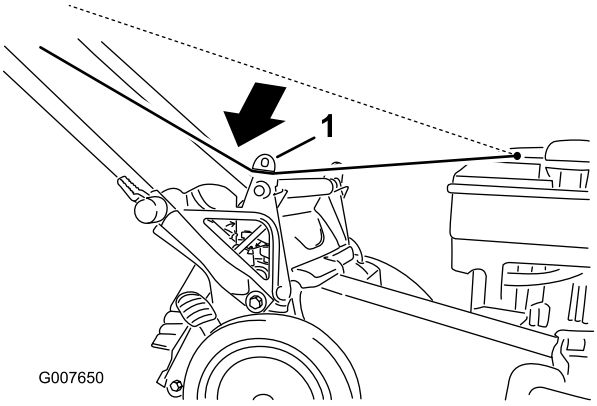


Figure 25

1. Lower rope guide

Note: The lower rope guide releases the starter rope when you pull the recoil start handle.

2. Raise and hold up the discharge deflector (Figure 26).

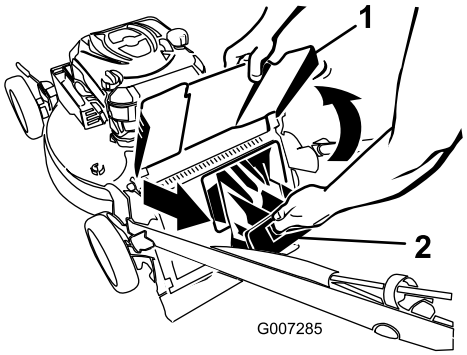


Figure 26

1. Discharge deflector 2. Rear discharge plug

3. Pull out the rear discharge plug (Figure 26).
4. Hang the upper front edge of the bag on the notches (Figure 27).

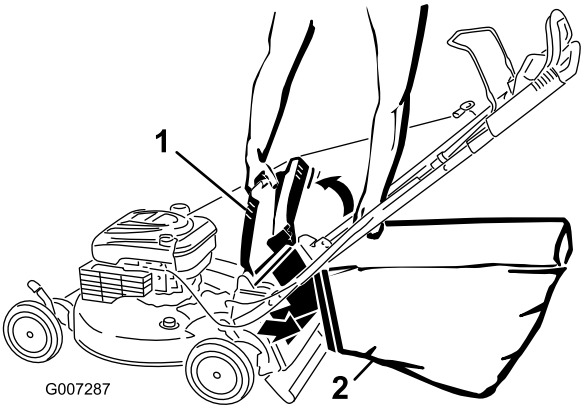


Figure 27

1. Discharge deflector 2. Grass bag

5. Lower the discharge deflector.

Removing the Grass Bag

1. Route the starter rope around the lower rope guide (Figure 28).

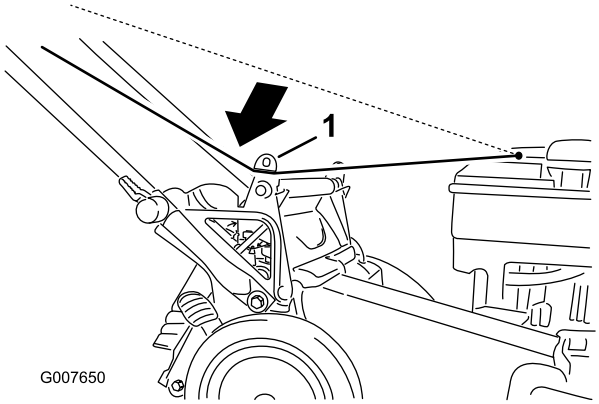


Figure 28

1. Lower rope guide

Note: The lower rope guide releases the starter rope when you pull the recoil start handle.

2. Raise and hold up the discharge deflector.
3. Lift the grass bag up by the handle off the notches.
4. Install the rear discharge plug (Figure 29).

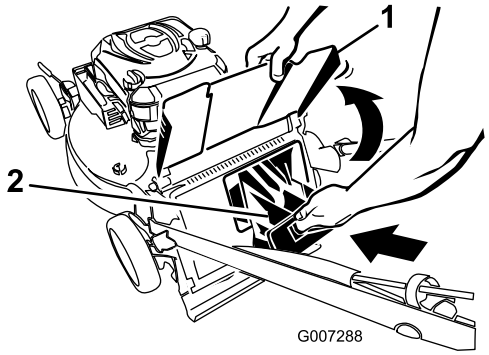


Figure 29

1. Discharge deflector
2. Rear discharge plug

Important: Ensure that the rear discharge plug is securely in place. Lift up the discharge deflector and look for 2 tabs in front of the plug (Figure 30). If you do not see them, firmly push the plug in until it snaps into place.

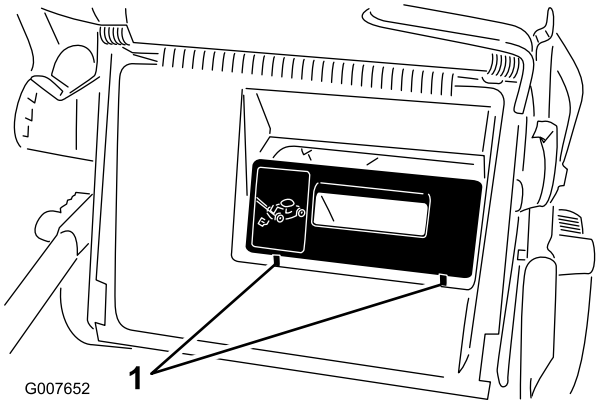


Figure 30

1. Tabs

5. Lower the discharge deflector.

Side-discharging the Clippings

Use the side discharge for cutting very tall grass.

If the bag is on the mower, remove it and insert the rear discharge plug (refer to Removing the Grass Bag) before side-discharging the clippings.

Important: Ensure that the rear discharge plug is securely in place. Lift up the discharge deflector and look for 2 tabs in front of the plug (Figure 31). If you do not see them, firmly push the plug in until it snaps into place (Figure 32).

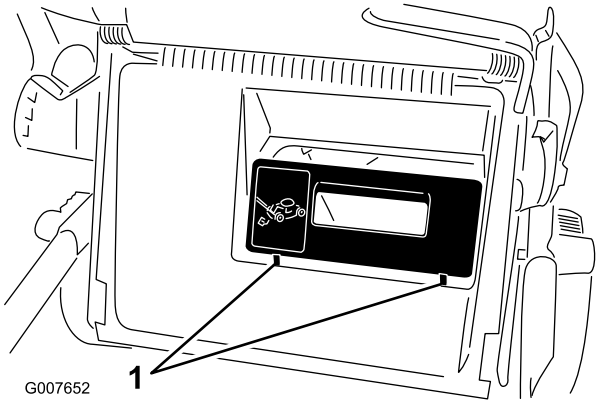


Figure 31

1. Tabs

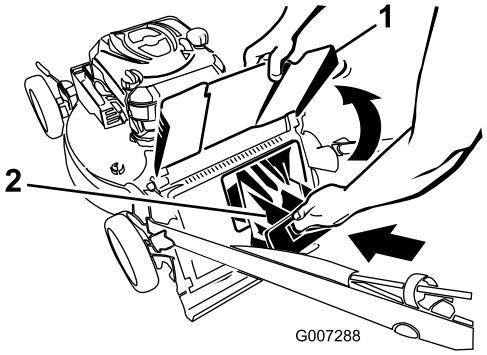


Figure 32

1. Discharge deflector
2. Rear discharge plug

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

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

Installing the Side Discharge Chute

1. Unlock the side discharge door (Figure 33).

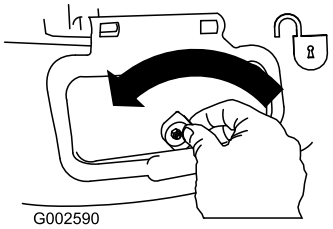


Figure 33

2. Lift open the side discharge door (Figure 34).

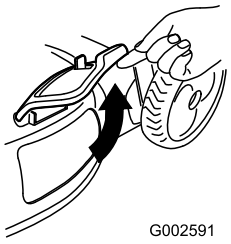


Figure 34

3. Install the side discharge chute and close the door onto the chute (Figure 35).

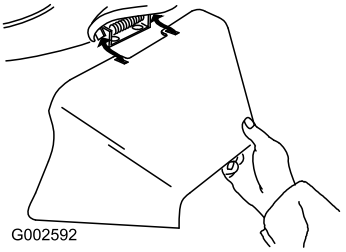


Figure 35

Removing the Side Discharge Chute

To remove the side discharge chute, reverse the steps above.

Important: Lock the side discharge door after you close it (Figure 36).

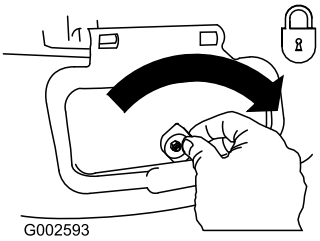


Figure 36

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.



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 2-1/4 inches (60 mm) and the rear wheels at 2-3/4 inches (70 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	• Change the engine oil.
Before each use or daily	• Check the engine oil level. • Check the blade brake clutch operation. • Clean grass clippings and dirt from under the mower.
Every 25 hours	• Lubricate the rear wheel gears. • Clean the blade brake clutch shield.
Every 50 hours	• Change the engine oil.
Every 100 hours	• Clean the cooling system (refer to your engine owner's manual). • Replace the spark plug (refer to your engine owner's manual).
Before storage	• Empty the fuel tank before repairs as directed and before annual storage.
Yearly	• Replace the air filter (more frequently in dusty operating conditions). • Check the spark plug (refer to your engine owner's manual). • Replace the blade or have it sharpened (more frequently if the edge dulls quickly). • Refer to your Engine Operator's Manual for any additional yearly maintenance procedures.

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

Preparing for Maintenance

1. Stop the engine and wait for all moving parts to stop.
2. Disconnect the spark plug wire from the spark plug (Figure 37) before performing any maintenance procedure.

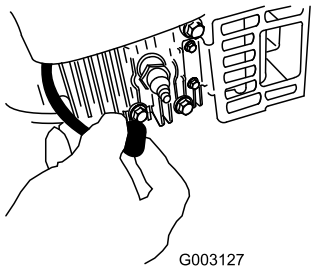


Figure 37

3. 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 air filter up.

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.

Replacing the Air Filter

Service Interval: Yearly

1. Perform the pre-maintenance procedures; refer to Preparing for Maintenance.
2. Use a screw driver to open the air filter cover (Figure 38).

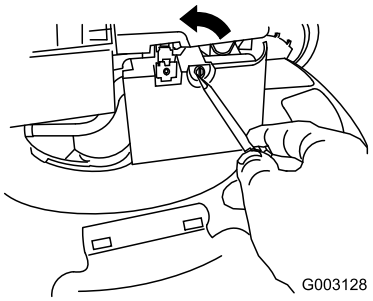


Figure 38

3. Replace the air filter.
4. Install the cover (Figure 39).

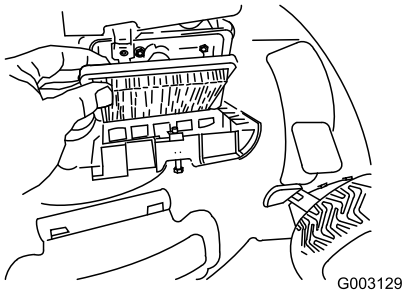


Figure 39

Changing the Engine Oil

Service Interval: After the first 5 hours

Every 50 hours

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 40).

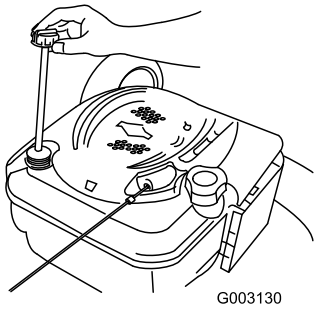


Figure 40

3. Tip the mower onto its side, with the air filter up, to drain the used oil out through the oil fill tube (Figure 41).

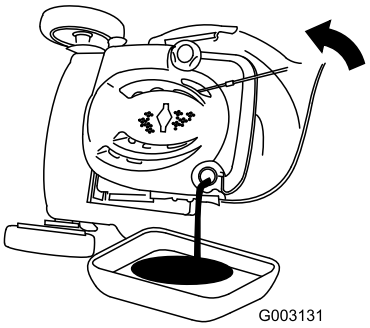


Figure 41

4. **Slowly** pour oil into the oil fill tube until the oil level reaches the Full line on the dipstick (Figure 42). **Do not overfill.** (Max. fill: 20 oz. (0.59 l), type: SAE 30W detergent oil with an API service classification of SF, SG, SH, SJ, SL, or higher.)

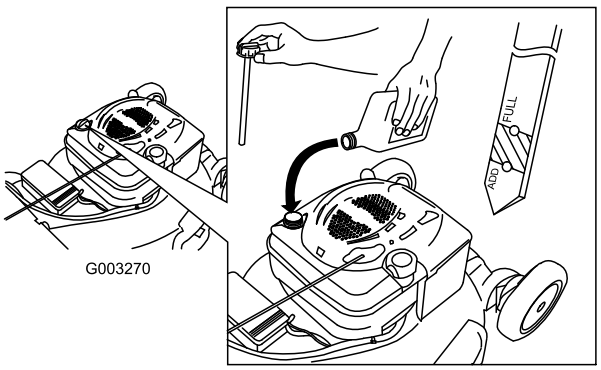


Figure 42

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

Lubricating the Wheel Gears

Service Interval: Every 25 hours

1. Wipe the grease fittings just inside the rear wheels with a clean rag (Figure 43).

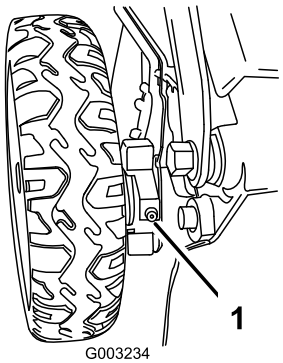


Figure 43

2. Install a grease gun onto each fitting and gently apply 2 or 3 pumps of #2 multi-purpose lithium-base grease.

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 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.

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.
2. Tip the mower onto its side with the air filter up.
3. Remove the 2 blade nuts and the stiffener (Figure 44).

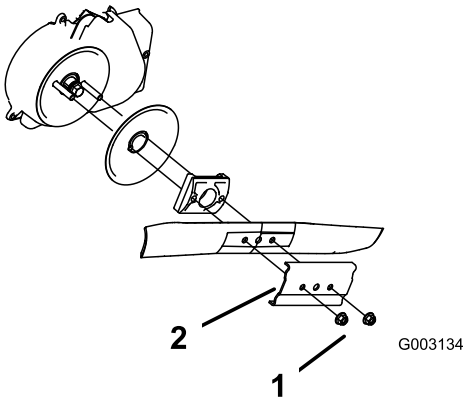


Figure 44

1. Blade nuts
2. Stiffener

4. Remove the blade (Figure 44).
5. Install the new blade (Figure 44).
6. Install the stiffener you previously removed.
7. **Install the blade nuts and torque them to 15 to 27 ft-lb (20 to 37 N·m).**

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 on page 18.
2. Tip the mower onto its side with the air filter up.
3. Remove the 2 blade nuts and the stiffener (Figure 45).

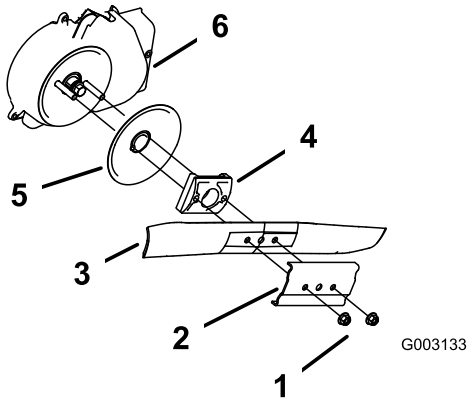


Figure 45

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

4. Remove the blade (Figure 45).
5. Remove the blade driver and disk (Figure 45).

6. Remove the blade brake clutch shield (Figure 45).
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 that you previously removed.
10. Install the blade and the stiffener that you previously removed (Figure 45).
11. **Install the blade nuts and torque them to 15 to 27 ft-lb (20 to 37 N·m).**

Cleaning the Mower

Service Interval: Before each use or daily

The mower may dislodge material from under the mower housing.

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

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

1. Lower the mower to its lowest cutting height setting. Refer to Adjusting the Cutting Height.
2. Move the mower onto a flat paved surface.
3. Attach a garden hose that is connected to a water supply to the washout port on the mower housing (Figure 46).

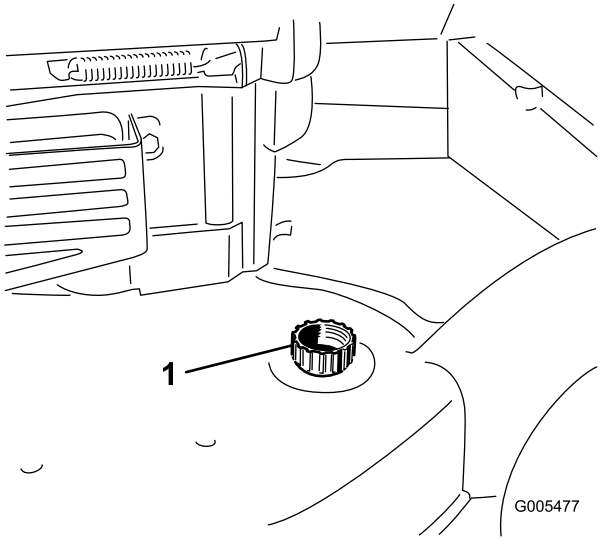


Figure 46

1. Washout port

4. Turn the water on.
5. Start the engine and run it until there are no more clippings that come out from under the mower housing.
6. Stop the engine.
7. Shut off the water and disconnect the garden hose from the mower.
8. Start the engine and run it for a few minutes to dry the housing.

Storage

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

Preparing the Mower for Storage

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. Allow the engine to run until it stops. When you can no longer start the engine, it is sufficiently dry.
4. Remove the wire from the spark plug and connect the wire onto the retaining post.
5. 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.
6. Loosely install the spark plug.
7. Tighten all nuts, bolts, and screws.

Folding the Handle

If, while folding the handle for storing or transporting the mower, you accidently bump the key and engage the blade control bar, the engine could start and rotate the blade, causing serious personal injury.

Always remove the ignition key before you fold the handle.

1. Rotate the handle forward (Figure 47).

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

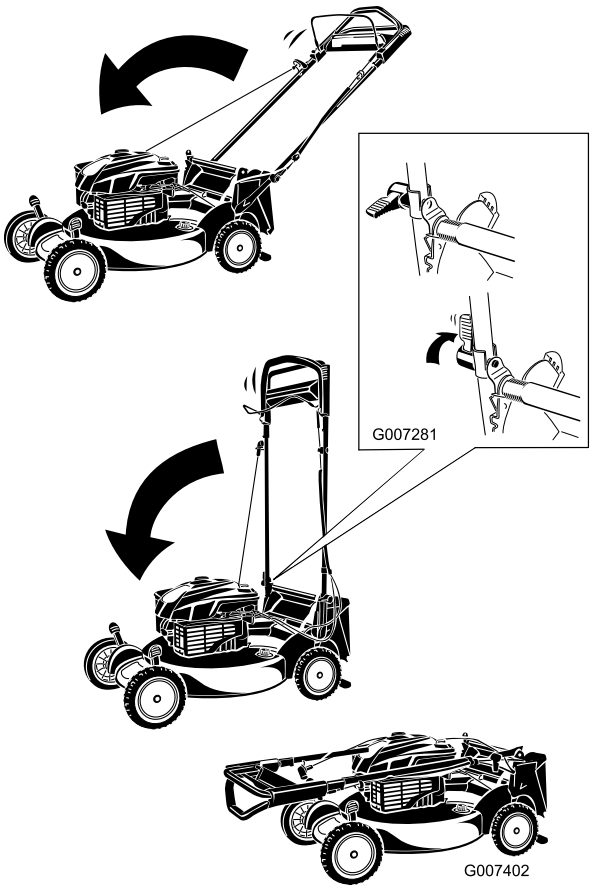


Figure 47

2. To unfold the handle, refer to Assembling and Unfolding the Handle in the Setup section.

Removing the Mower from Storage

1. Remove the spark plug and spin the engine rapidly using the starter to blow the excess oil from the cylinder.
2. Install the spark plug and tighten it with a torque wrench to 15 ft-lb (20 N·m).
3. Connect the wire to the spark plug.

Notes:

Notes:

TORO.

Super Recycler
Walk Mowers

The Toro Starting Guarantee

A Five-Year Full Warranty on All
Toro GTS®-5 Engines

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly guarantee that your Toro Engine will start on the first or second pull for five years from the date of purchase—if you provide the routine maintenance it requires—or we will fix it free of charge. This warranty covers the cost of parts and labor, but you must pay transportation costs. This covers Toro rotary mower engines.

Instructions for Obtaining Warranty Service

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

1. Contact any Toro Authorized or Master 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 website at www.Toro.com. You may also call our Toro Customer Care Department toll free at 888-865-5688 (U.S. customers) or 888-865-5705 (Canada customers).
2. Bring the product and your proof of purchase (sales receipt) to the Service Dealer.

If for any reason you are dissatisfied with the Service Dealer's analysis or with the assistance provided, call us toll free at the numbers listed or write us at:

Customer Care Department, Consumer Division
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196

Owner Responsibilities

You must maintain your Toro Engine by following the maintenance schedule detailed in the *Operator's Manua*l. You must record this work in the maintenance chart provided in your *Operator's Manual* and keep your proof of purchase. 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 The Toro Total Coverage Guarantee and special emission system coverage on some products. This warranty does not cover the following:

- Any repairs on products used commercially
- Normal maintenance including replacement of spark plugs, air filter, fuel filter, and carburetor adjustments
- Oil change and lubrication
- Repairs or adjustments due to the following:
  - failure to follow proper maintenance procedures
  - rotary mower blade striking an object
  - contaminants in the fuel system
  - improper fuel or fuel mixture (consult your operator's manual if in doubt)
  - failure to drain the fuel system prior to any period of non-use over three months
  - operation misuse, neglect, or accidents
  - repairs or attempted repairs by anyone other than an Authorized Service Dealer
- Special operational conditions where starting may require more than two pulls, including the following:
  - first time starts after extended period of non-use or seasonal storage
  - cool temperature starts such as those found in early spring and late autumn (applies to rotary products only)
  - improper starting procedures

If you have difficulty starting your unit, please check the *Operator's Manual* to ensure that you are using the correct starting procedure. This can save an unnecessary visit to a Service Dealer.

General Conditions

All repairs covered by this warranty must be performed by an Authorized Toro Service Dealer using Toro approved replacement parts. Repair by an Authorized Toro Service Dealer is your sole remedy under this warranty.

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 this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty.

Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations 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.

Guaranteed to Start Maintenance Record

To keep the starting guarantee in effect, you must perform the following maintenance according to the recommended maintenance schedule. Follow the procedures in this operator's manual and record all maintenance activities on this chart.

Date	Hours Used	Air Cleaner Service (mowers only)	Change Oil (does not apply to two-cycle)	Lubricate Wheels (mowers only)	Check Spark Plug	Storage Preparation

Date	Hours Used	Air Cleaner Service (mowers only)	Change Oil (does not apply to two-cycle)	Lubricate Wheels (mowers only)	Check Spark Plug	Storage Preparation

Super Recycler
Walk Mowers

The Toro Total Coverage Guarantee

A Full Warranty
(Limited Warranty for Commercial Use)

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly promise to repair any Toro product used for normal residential purposes* if defective in materials or workmanship or if it stops functioning due to the failure of a component. The following time periods apply from the date of purchase:

Products	Warranty Period
• Super Recycler® Walk Mowers and Accessories	5 year full warranty
• Batteries	1 year full warranty

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

This warranty applies to Super Recycler® Walk Mowers and Accessories.

Limited Warranty for Commercial Use

Toro Walk Power Mowers used for commercial, institutional, or rental use are warranted against defects in materials or workmanship. Components failing due to normal wear are not covered by this warranty. The following time periods apply from the date of purchase: 45–day limited warranty for engine and entire unit.

Instructions for Obtaining Warranty Service

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

1. Contact any Toro Authorized or Master 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 website at www.Toro.com. You may also call our Toro Customer Care Department toll free at 888-865-5688 (U.S. customers) or 888-865-5705 (Canada customers).
2. Bring the product and your proof of purchase (sales receipt) to the Service Dealer.

If for any reason you are dissatisfied with the Service Dealer’s analysis or with the assistance provided, call us toll free at the numbers listed or write us at:

Customer Care Department, Consumer Division
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196

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 and the Toro Starting Guarantee on GTS Engine. This express warranty does not cover:

- Cost of regular maintenance service or parts, such as filters, fuel, lubricants, oil changes, spark plugs, blade sharpening, worn blade, cable/linkage adjustments, or brake and clutch adjustments
- Any product or part which has been altered or misused or required replacement or repair due to accidents or lack of proper maintenance
- Repairs necessary due to improper fuel, contaminants in the fuel system, or failure to properly prepare the fuel system prior to any period of non-use over three months
- Repairs necessary due to improper battery care or failure to properly prepare the mower prior to any period of non-use
- Pickup and delivery charges

If you have difficulty starting your unit, please check the *Operator’s Manual* to ensure that you are using the correct starting procedure. This can save an unnecessary visit to a Service Dealer.

General Conditions

All repairs covered by this warranty must be performed by an Authorized Toro Service Dealer using Toro approved replacement parts. Repair by an Authorized Toro Service Dealer is your sole remedy under this warranty.

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 this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty.

Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations 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.

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.

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

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