



**Super Recycler®**  
**Walk Power Lawn Mower**  
Model No. 20046—200000001 and Up

**Operator's Manual**

Para obtener una versión gratis de este manual en español, escriba a la dirección indicada más abajo. Asegúrese de indicar el modelo y el número de serie de su producto.

Pour obtenir gratuitement une version en français de ce manuel, écrivez à l'adresse ci-dessous. N'oubliez pas d'indiquer les numéros de modèle et de série de votre produit.

The Toro Company, Attn: Parts Dept., 8111 Lyndale Ave S, Bloomington, MN 55420-1196

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## WARNING



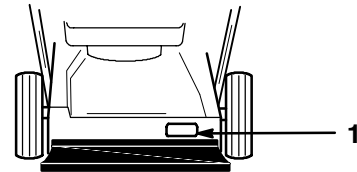
The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

## Introduction

Thank you for choosing a Toro product. We want you to be completely satisfied with your new purchase.

Read this manual carefully to learn how to operate and maintain your product properly. The information in this manual can help you and others avoid injury and product damage. Although Toro designs and produces safe products, you are responsible for operating the product properly and safely.

Whenever you contact your Authorized Service Dealer or the factory for help with service, genuine Toro parts, or additional information, have the model number and the serial number of your product handy. You will find the model number and serial number decal on the product as illustrated in Figure 1.



1064

**Figure 1**

1. Model number and serial number decal

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

**Model No.** \_\_\_\_\_

**Serial No.** \_\_\_\_\_

This manual identifies potential hazards and has special safety messages that help you and others avoid personal injury and even death. **DANGER**, **WARNING**, and **CAUTION** are words used to identify the level of hazard.

**DANGER** signals an extreme hazard that will cause serious injury or death if you do not follow the recommended precautions.

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

**CAUTION** signals a hazard that may cause minor or moderate injury if you do not follow the recommended precautions.



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


## Safety

**This lawn mower meets or exceeds CPSC blade safety requirements for walk-behind rotary mowers and the B71.1 specifications of the American National Standards Institute, in effect at time of production. However, improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with these safety instructions.**

Toro designed this lawn mower for cutting and mulching grass, or, when equipped with a grass bag, for catching cut grass. Any use for purposes other than these could prove dangerous to the operator or to bystanders.

**Note:** This engine is **not** equipped with a spark arrester muffler. Operating this mower on any forest-covered, brush-covered, or unimproved grass-covered land without an approved spark arrester muffler may violate your state law.

 <b>WARNING</b> 	
<b>POTENTIAL HAZARD</b>	
<ul style="list-style-type: none"><li>• Engine exhaust contains carbon monoxide, which is an odorless, deadly poison.</li></ul>	
<b>WHAT CAN HAPPEN</b>	
<ul style="list-style-type: none"><li>• Carbon monoxide can kill you.</li></ul>	
<b>HOW TO AVOID THE HAZARD</b>	
<ul style="list-style-type: none"><li>• Do not run the engine indoors or in an enclosed area.</li></ul>	

To ensure maximum safety, best performance, and to gain knowledge of the product, it is essential that you and any other operator of the lawn mower read and understand the contents of this manual before the motor is ever started. Pay particular attention to the safety alert symbol  which means **CAUTION, WARNING, OR DANGER** — “personal safety instruction.” Read and understand the instruction because it has to do with safety. Failure to comply with instruction may result in personal injury.

## General Lawn Mower Safety

The following instructions have been adapted from the ANSI/OPEI standard B71.1—1998 and ISO standard 5395:1990(E). Information or terminology specific to Toro lawn mowers is enclosed in parenthesis.

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

### Training

- Read the instructions carefully. Be familiar with the controls and the proper use of the equipment before starting.
- See manufacturer’s instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- Never allow children or people unfamiliar with these instructions to use the mower. Local regulations may restrict the age of the operator.
- Never mow while people, especially children, or pets are nearby. Stop mower if anyone enters the area.

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the mower 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.
- Be alert and turn mower off if children enter the area.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

### Preparation

- While mowing, always wear substantial footwear and long trousers.
- Do not operate the equipment when barefoot or wearing open sandals.
- Always wear safety goggles or safety glasses with side shields when operating mower.
- Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wires, bones, and other foreign objects.
- **Warning: Gasoline is highly flammable.** Take the following precautions:
  - Store fuel in containers specifically designed for this purpose.

- Refuel outdoors only and do not smoke while refuelling.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add gasoline while the engine is running or when the engine is hot.
- If gasoline is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until gasoline vapors have dissipated.
- Replace all fuel tank and container caps securely.
- If the fuel tank has to be drained, do this outdoors.
- Replace faulty mufflers.
- Before using, always visually inspect to see that the blades, blade bolts, and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- On multibladed machines, take care as rotating one blade can cause other blades to rotate.

## Operation

- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Mow only in daylight or in good artificial light.
- Always be sure of your footing on slopes.
- Walk; never run.
- Keep a firm hold on the handle.
- For wheeled rotary machines, mow across the face of slopes, never up and down.
- Exercise extreme caution when changing direction on slopes.
- Do not mow excessively steep slopes.
- Use extreme caution when reversing or pulling the mower towards you.
- Before and while moving backward, look behind and down for small children.
- Stop the blade(s) if the mower has to be tilted for transportation when crossing surfaces other than grass and when transporting the mower to and from the area to be mowed.
- Never operate the mower with damaged or missing guards or shields, or without safety devices; for example, deflectors and/or grass catchers in place.
- Do not change the engine governor settings or overspeed the engine.
- Disengage all blade and drive clutches before starting the engine.
- Start the engine or switch on the motor carefully according to instructions and with feet well away from the blade(s).
- Do not tilt when starting the engine or switching on the motor, unless the mower has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator.
- Do not start the engine when standing in front of the discharge chute.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Never pick up or carry a mower while the engine is running.
- Stop the engine and disconnect the spark plug lead
  - before clearing blockages or unclogging chute;
  - before checking, cleaning, or working on the mower;
  - after striking a foreign object. Inspect the mower for damage and make repairs before restarting and operating the mower;
  - if mower starts to vibrate abnormally (check immediately).
- Stop the engine
  - whenever you leave the mower;
  - before refuelling.
- Reduce the throttle setting during engine run-out and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing.
- Stop the blade(s) when crossing gravel drives, walks, or roads.
- Shut the engine off and wait until the blade comes to complete stop before removing grass catcher.
- Do not operate the mower while under the influence of alcohol or drugs.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

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

- Watch for holes, ruts, or bumps. Tall grass can hide obstacles.
- **Do not** mow near drop-offs, ditches, or embankments. The operator could lose footing or balance.
- **Do not** mow on wet grass. Reduced footing could cause slipping.

## Maintenance and Storage

- Keep all nuts, bolts (especially blade attachment bolts), and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the engine, muffler, battery compartment, and gasoline storage area free of grass, leaves, or excessive grease.
- Check the grass catcher frequently for wear or deterioration.
- Replace worn or damaged parts for safety.
- Use extra care when handling gasoline; vapors are explosive.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep the mower free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never attempt to make wheel height adjustments while the engine is running.
- Always disconnect electric mowers (live operated) before cleaning, repairing, or adjusting.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or overspeed the engine.
- To ensure the best performance and safety, purchase only genuine Toro replacement parts and accessories. **Do not use "will fit" parts and accessories; they may cause a safety hazard.**

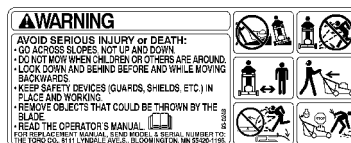
## Safety and Instruction Decals



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 lost.



On Mower Housing  
(Part No. 43-8480)



On Mower Housing  
(Part No. 93-0248)



On Mower Housing  
(Part No. 99-6018)

## Assembly

**Note:** Determine the left and right sides of the lawn mower by standing in the operating position.

## Unpacking the Lawn Mower



### WARNING



#### POTENTIAL HAZARD

- Folding or unfolding the handle improperly can pinch, stretch, or damage one or more of the cables.

#### WHAT CAN HAPPEN

- Any pinched, stretched, or damaged cable may cause an operational failure that results in an unsafe operating condition.

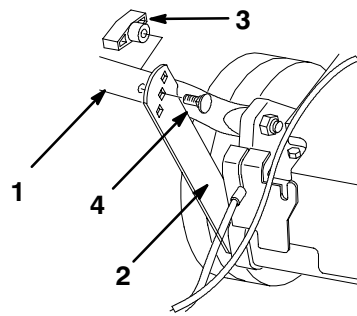
#### HOW TO AVOID THE HAZARD

- Do not pinch, stretch, or damage the cables.
- Handle the cables with care when folding or unfolding the handle.
- Do not use the lawn mower if one or more of the cables are pinched, stretched, or damaged. Contact your Authorized Service Dealer.

1. Open the box from the top.
2. Remove the fillers from the box, allowing the upper handle to rest on the top of the lawn mower.
3. Remove the lawn mower from the box.
4. Lay the upper handle on the ground behind the lawn mower with the handle label facing up and the control cables routed between the handle mounting brackets.

## Assembling the Handle

1. Remove the four handle bolts and knobs that are installed in the lower handle (two bolts will have flat caps and two will be contoured to fit the handle).
2. Swing the lower handle back and the support brackets up, aligning the brackets with the holes in the handle (Fig. 2).
3. Secure the handle to the support brackets with the two flat handle bolts and two knobs, using the height adjustment holes on the brackets that best suit your height requirements (Fig. 2)



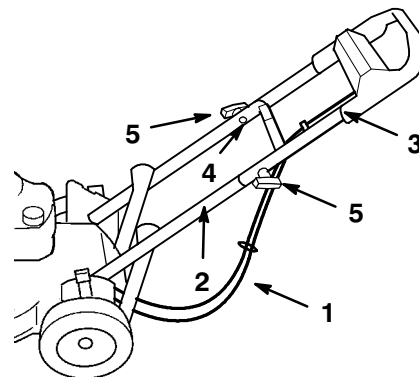
m-4272

Figure 2

- |                    |                     |
|--------------------|---------------------|
| 1. Lower handle    | 3. Knob             |
| 2. Support bracket | 4. Flat handle bolt |

**Note:** If handle height is not satisfactory, adjust it by installing the handle bolt and knob through a different set of holes.

4. Slide the upper handle section ends over the lower handle so that the sections nest together (Fig. 3)
5. Ensure that the cables are routed below/behind the lower handle as illustrated in Figure 3.
6. Secure the upper handle to the lower handle using two contoured handle bolts and two knobs (Fig. 3).



m-4204

Figure 3

- |                 |                                           |
|-----------------|-------------------------------------------|
| 1. Cables       | 4. Contoured handle bolt (only one shown) |
| 2. Lower handle | 5. Knobs                                  |
| 3. Upper handle |                                           |

# Before Starting

## Filling the Crankcase with Oil

The crankcase can hold 20 ounces (0.59 liters) of oil. Use only high-quality, SAE 30 or 10W30 weight detergent oil that has the American Petroleum Institute (API) “service classification” — SF, SG, SH, or SJ.

Before each use, make sure that the oil level is between the *Add* and the *Full* marks on the dipstick (Fig. 4).

**Note:** When the crankcase is empty, pour about three-fourths of the crankcase capacity of oil in the crankcase, then follow the procedure in this section.

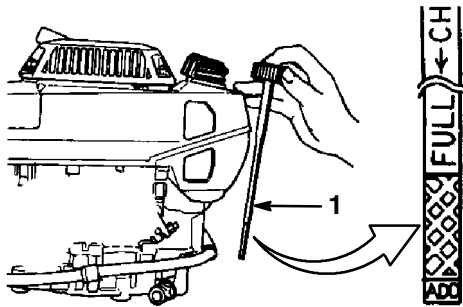


Figure 4

1. Dipstick

To add oil:

1. Move the lawn mower to a level surface.
2. Clean around the dipstick (Fig. 4).
3. Remove the dipstick by rotating the cap counterclockwise and pulling it out.
4. Wipe the dipstick clean with a clean cloth.
5. Insert the dipstick into the filler neck, then remove it.

**Note:** To ensure an accurate oil level reading, you must fully install the dipstick.

6. Read the oil level on the dipstick (Fig. 4).
7. If the oil level reading is below the *Add* mark on the dipstick, **slowly** pour only enough oil into the filler hole to raise the oil level to the *Full* mark on the dipstick.

**IMPORTANT:** Do not overfill the crankcase with oil and run the engine; engine damage will result. Drain the excess oil until the oil level on the dipstick reads *Full*.

8. Insert the dipstick into the filler neck and rotate the cap clockwise until it is tight.

## Filling the Fuel Tank with Gasoline

For best results, use clean, fresh, lead-free gasoline, including *oxygenated* or *reformulated* gasoline, with an octane rating of 87 or higher. To ensure freshness, purchase only the quantity of gasoline that you expect to use in 30 days. Using unleaded gasoline results in fewer combustion deposits and longer engine life. You may use leaded gasoline if unleaded gasoline is not available.

**IMPORTANT:** Do not add oil to the gasoline.

**IMPORTANT:** Do not use methanol, gasoline containing methanol, gasohol containing more than 10% ethanol, premium gasoline, or white gas. Using these fuels can damage the engine's fuel system.

**IMPORTANT:** Do not use gasoline that has been stored since the last mowing season or longer.



## DANGER



### POTENTIAL HAZARD

- In certain conditions, gasoline is extremely flammable and highly explosive.

### WHAT CAN HAPPEN

- A fire or explosion from gasoline can burn you and others and can damage property.

### HOW TO AVOID THE HAZARD

- Fill the fuel tank outdoors, in an open area, and when the engine is cold. Wipe up any gasoline that spills.
- Do not fill the fuel tank completely full. Add gasoline to the fuel tank until the level is 1/4 to 1/2 inch (6 to 13 mm) below the bottom of the filler neck. This empty space in the tank allows gasoline to expand.
- Never smoke when handling gasoline, and stay away from an open flame or where a spark may ignite the gasoline fumes.
- Store gasoline in an approved container and keep it out of the reach of children.
- Never buy more than a 30-day supply of gasoline.



## DANGER



### POTENTIAL HAZARD

- When fueling, under certain circumstances, a static charge can develop, igniting the gasoline.

### WHAT CAN HAPPEN

- A fire or explosion from gasoline can burn you and others and damage property.

### HOW TO AVOID THE HAZARD

- Always place gasoline containers on the ground away from your vehicle before filling.
- Do not fill gasoline containers inside a vehicle or on a truck or trailer bed because interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.
- When practical, remove gasoline-powered equipment from the truck or trailer and refuel the equipment with its wheels on the ground.
- If this is not possible, then refuel such equipment on a truck or trailer from a portable container, rather than from a gasoline dispenser nozzle.
- If you must use 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.

Use a fuel stabilizer/conditioner regularly during operation and storage. A stabilizer/conditioner cleans the engine during operation and prevents gum-like varnish deposits from forming in the engine during periods of storage.

**IMPORTANT:** Do not use fuel additives other than a fuel stabilizer/conditioner. Do not use fuel stabilizers with an alcohol base such as ethanol, methanol, or isopropanol.

1. Clean around the fuel tank cap (Fig. 5).

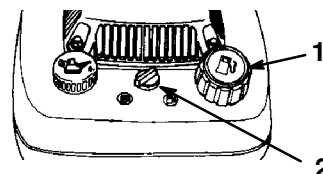


Figure 5

1. Fuel tank cap
2. Fuel valve

2. Remove the cap from the tank.

3. Fill the fuel tank with unleaded gasoline to within 1/4 to 1/2 inch (6 to 13 mm) from the top of the tank. **Do not fill into the filler neck.**

4. Install the fuel tank cap and wipe up any spilled gasoline.

## Operation

Each time before you mow, make sure that the self-propel drive and the control bar operate properly. When you release the blade control bail, the engine and the blade should stop. If they do not, contact an Authorized Service Dealer.

## Controls

The starter handle, the blade control bail, and the throttle control are on the upper handle as shown in Figure 6.

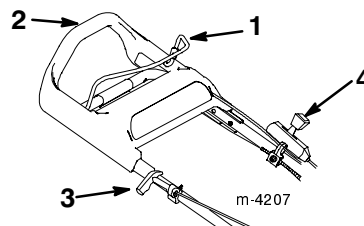


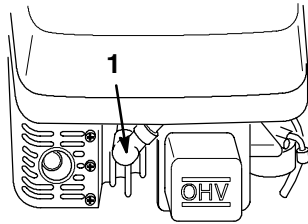
Figure 6

1. Blade control bail
2. Upper handle
3. Starter handle
4. Throttle control



## Starting the Engine


1. Connect the wire onto the spark plug (Fig. 7).



m-4353

Figure 7

1. Spark plug wire

2. Open the fuel valve (Fig. 5).
3. Move the throttle control to the  (Choke) position.
4. Hold the blade control bail against the upper handle (Fig. 6).
5. Pull the starter handle lightly until resistance is felt, then pull it sharply (Fig. 6). Allow the rope to return to the handle slowly.

**Note:** If the engine fails to start after three attempts, repeat steps 1 through 5.

## Stopping the Engine

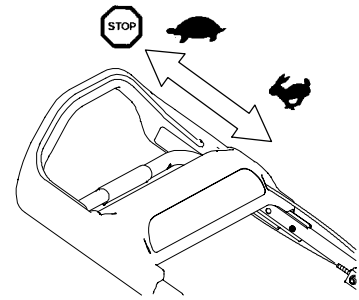
Release the blade control bail. Both the engine and blade will stop. See your dealer immediately if they do not.

## Using the Self-propel Drive

To operate the self-propel drive, simply walk forward with your hands on the upper handle. As you move forward, the upper handle will slide toward the lawn mower, activating the self-propel drive. The faster you walk, the farther the handle will slide and the faster the lawn mower will propel (Fig. 8).

**Note:** The lawn mower propels at the maximum speed when the upper handle is pushed as far forward as possible.

To slow down or stop, simply slow your walking speed or stop (Fig. 8). **If, when backing up after self-propelling, the lawn mower does not roll backward freely, nudge the lawn mower forward about an inch without engaging the self-propel drive, then pull the lawn mower backward.**





m-4206

Figure 8

## Adjusting the Cutting Height

Each wheel is adjusted individually with a wheel height adjustment lever. Cutting heights are 1 inch (25 mm), 1-1/2 inches (38 mm), 2 inches (51 mm), 2-1/2 inches (64 mm), and 3 inches (76 mm).

**DANGER**

**POTENTIAL HAZARD**

- Adjusting the height-of-cut levers could bring your hands into contact with the moving blade.

**WHAT CAN HAPPEN**

- Contact with a rotating blade can cause serious injury.

**HOW TO AVOID THE HAZARD**

- Stop the engine and wait for all movement to stop before adjusting the cutting height.
- Do not put your fingers under the lawn mower housing when adjusting the height-of-cut.

1. To change the cutting height, pull the adjusting lever toward the wheel and move it to the desired position (Fig. 9).

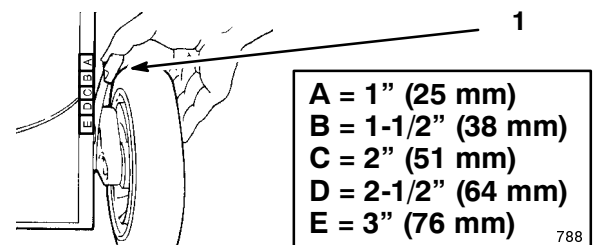


Figure 9

1. Wheel height adjustment lever

2. Release the height adjust lever and seat it securely in the notch.

**Note:** Set all four wheels at the same height.

# Operating Tips

## General Tips

- Review the safety instructions and read this manual carefully before operating the lawn mower.
- Clear the area of sticks, stones, wire, branches, and other debris which could be picked up or hit by the blade and become thrown objects.
- Keep everyone, especially children and pets, away from the area of operation.
- Avoid striking trees, walls, curbs, or other solid objects. Never deliberately mow over any object.
- If the lawn mower strikes an object or starts to vibrate, immediately stop the engine, disconnect the spark plug wire, and examine the lawn mower for damage.
- Maintain a **sharp blade** throughout the cutting season. Periodically file down nicks on the blade.
- Replace the blade when necessary with an original Toro replacement blade.
- Only mow dry grass or leaves. Wet grass and leaves tend to clump on the yard and may cause the lawn mower to plug or the engine to stall.



## WARNING



### POTENTIAL HAZARD

- **Wet grass or leaves can cause you to slip and contact the blade.**

### WHAT CAN HAPPEN

- **Blade contact can seriously injure you.**

### HOW TO AVOID THE HAZARD

- **Mow only in dry conditions.**

- Clean clippings or leaves from the underside of the lawn mower deck after each mowing. See *Cleaning the Underside of the Lawn Mower Housing* on page 13.
- Keep the engine in good running condition.



## WARNING



### POTENTIAL HAZARD

- **Operating a lawn mower with its engine running at a speed greater than the factory setting can cause an unsafe operating condition.**

### WHAT CAN HAPPEN

- **The lawn mower could throw a part of the blade or engine into the operator's or bystander's area and cause serious personal injury or death.**

### HOW TO AVOID THE HAZARD

- **Do not change the engine speed setting.**
- **If you suspect the engine speed is faster than normal, contact your Authorized Service Dealer.**

- Clean or replace the air filter frequently. Mulching stirs up more clippings and dust which clogs the air filter and reduces engine performance.
- To achieve the best mulching action, set the lawn mower cutting height so the lawn mower cuts no more than a third of the grass blade or a maximum of one-inch- (25 mm) long clippings. If you try to mulch more or if the grass is very lush, the mulching action will be poor. Under these conditions, use the side discharge or grass catcher. A few days later, install the mulch plate on your lawn mower to resume mulching.

## Cutting Grass

- In the summer heat, cut the grass at the 2, 2-1/2, or 3-inch (51, 64, or 76 mm) cutting height settings. Only cut off about one-third of the grass blade. Do not cut below the two-inch setting unless the grass is sparse or it is late autumn when the grass growth begins to slow down.
- When cutting grass over six inches (15 cm) tall, first mow using the highest cutting height setting and walking slower; then mow again at a lower setting for best lawn appearance. If the grass is too long and leaves clumps on top of the lawn, the lawn mower may plug up and cause the engine to stall.
- Alternate the mowing direction. This helps disperse clippings over the lawn for even fertilization.

If the finished lawn appearance is unsatisfactory, try one or more of the following:

- Sharpen the blade.
- Walk at a slower pace while mowing.
- Raise the cutting height on your lawn 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 light leaf coverage, set all the wheels at the same cutting height setting.
- If there are more than five inches (12.7 cm) of leaves on the lawn, set the front wheels one or two notches higher than the rear wheels. This makes it easier to feed the leaves under the lawn mower deck.
- Slow down your mowing speed if the lawn mower does not cut the leaves finely enough.
- If you mow over oak leaves, you can add lime to the grass in the spring to reduce the acidity of the leaves.

## Cutting Leaves

- After cutting the lawn, make sure that half of the lawn shows through the cut leaf cover. You may need to make one or more passes over the leaves.

# Maintenance

## Recommended Maintenance Schedule

Service Item	Service Operation	Each Use	5 Hours	25 Hours	50 Hours	100 Hours
Engine Oil	Check the engine oil before each use.	X				
	Drain and refill engine crankcase with fresh oil after first eight hours of operation. Thereafter, change every 50 operating hours or yearly.				X	
Housing	Clean built-up grass clippings and dirt.	X				
Fasteners	Check blade and engine mounting fasteners. Keep all fasteners tight to keep the lawn mower in safe working condition.		X			
Air Filter	Clean the foam pre-cleaner every 25 operating hours. Clean it more frequently in dusty operating conditions.			X		
	Clean the paper air filter after the first 25 operating hours, then every 100 operating hours thereafter. Replace the paper air filter every 300 operating hours or yearly. Replace it more frequently in dusty operating conditions.					X
Blade	Sharpen or replace the blade; maintain it more frequently if the edge dulls quickly in rough or sandy conditions.				X	
Blade Brake	Check stopping time every 50 operating hours or at the start of each mowing season. The blade must stop within three seconds of releasing bail; if not, see your Authorized Service Dealer for repair.				X	
Self-propel Drive	Adjust the cable and grease the rear-height adjustor brackets.				X	
Fuel System	Check for leakage and/or deterioration of fuel hose. Replace if necessary.				X	

Service Item	Service Operation	Each Use	5 Hours	25 Hours	50 Hours	100 Hours
Belt Cover	Remove and clean grass, clippings and debris from under cover.				X	
Spark Plug	Inspect and clean the spark plug. Replace it if necessary.					X
Cooling System	Clean debris from the engine air cooling fins and starter. Clean it more frequently if operated under dirty conditions.					X
Fuel Tank	Empty the fuel tank before certain repairs as directed or before storage.					

**CAUTION**

**POTENTIAL HAZARD**

- If you leave the wire on the spark plug, someone could start the engine.

**WHAT CAN HAPPEN**

- Someone accidentally starting the engine could seriously injure you or other bystanders.

**HOW TO AVOID THE HAZARD**

- Disconnect the wire from the spark plug before you do any maintenance. Set the wire aside so that it does not accidentally contact the spark plug.

## Checking the Engine Oil Level

Before you use the lawn mower, make sure that the oil level is between the *Add* and the *Full* marks as shown on the dipstick (Fig. 4). If the oil level is below the *Add* mark, add oil. Refer to *Filling the Crankcase with Oil* on page 7.

## Changing the Engine Oil

Change the engine oil after the first eight hours of operation and after 50 hours of operation or yearly thereafter.

1. Run the engine to warm the oil.

**WARNING**

**POTENTIAL HAZARD**

- Oil may be hot after the engine has been running.

**WHAT CAN HAPPEN**

- Contact with hot oil can cause severe personal injury.

**HOW TO AVOID THE HAZARD**

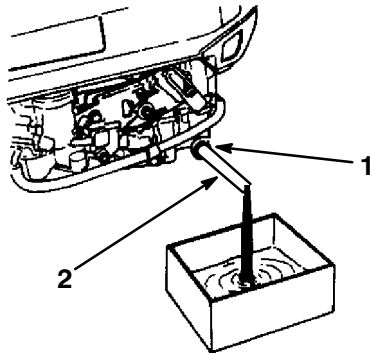
- Avoid contact with oil while draining oil.

2. Stop the engine and wait for all moving parts to stop.
3. Disconnect the wire from the spark plug (Fig. 7).
4. Drain the gasoline from the fuel tank. Refer to *Emptying the Fuel Tank* on page 17.
5. Place a suitable drain pan under the side oil drain plug.
6. Raise the left side of the lawn mower at least 12 inches and open the side oil drain plug (Fig. 10).
7. Insert the oil drain tube over the drain plug and lower the lawn mower (Fig. 10).

8. Raise the right side of the lawn mower until the oil has flowed into the drain pan.
9. Remove the oil drain tube and install the side oil drain plug.

**IMPORTANT: Torque the side oil drain plug to 23 N-m (190 in-lb).**

10. Recycle the oil as per local codes.



**Figure 10**

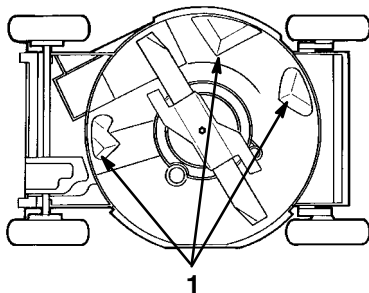
1. Side oil drain plug
2. Oil drain tube

11. Fill the crankcase to the *Full* line on the dipstick with fresh oil. Refer to the *Filling the Crankcase with Oil* on page 7.

12. Wipe up any spilled oil.

## Cleaning the Underside of the Lawn Mower Housing

Keep the underside of the lawn mower housing clean. Be especially careful to keep the kickers free of debris (Fig. 11).



**Figure 11**

1. Kickers

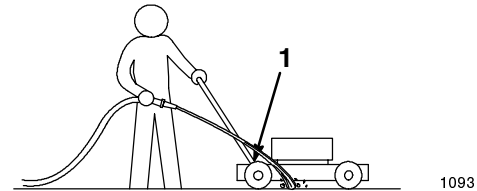
## Washing Method

1. Move the lawn mower on a flat concrete or asphalt surface near a garden hose.

2. Start the engine.

3. Hold the running garden hose at handle level and direct the water to flow on the ground just in front of the right rear tire (Fig. 12).

The blade will draw in water and wash out the clippings. Let the water run until the clippings no longer come out from under the housing.



**Figure 12**

1. Rear right wheel

4. Stop the engine and wait for all moving parts to stop.
5. Turn off the garden hose.
6. Start the lawn mower and let it run for a few minutes to dry it off.
7. While the engine runs, engage and disengage the traction drive several times to dry it out.

## Scraping Method

If washing does not remove all the debris from under the deck, tip the lawn mower and scrape it clean.

1. Disconnect the wire from the spark plug (Fig. 7).
2. Drain the gasoline from the fuel tank. Refer to *Emptying the Fuel Tank* on page 17.
3. Tip the lawn mower so that the air filter is up.
4. Remove the dirt and grass clippings with a hardwood scraper. Avoid burrs and sharp edges.

**IMPORTANT: Move the blade as little as possible to avoid future starting problems.**

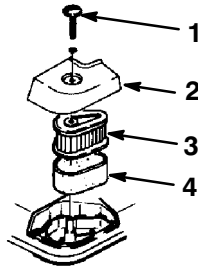
5. Turn the lawn mower upright.
6. Fill the fuel tank.
7. Connect the wire on the spark plug.

## Cleaning the Air Filter

Clean the foam pre-cleaner after the first 25 operating hours; clean it more frequently in dusty operating conditions. Replace the paper air filter once every season or every 300 operating hours; clean or replace it more frequently in dusty conditions.

**IMPORTANT: Do not operate the engine without the air filter assembly; extreme engine damage will occur.**

1. Stop the engine and wait for all moving parts to stop.
2. Disconnect the wire from the spark plug (Fig. 7).
3. Remove the bolt that secures the air cleaner cover (Fig. 13).
4. Remove the cover and clean it thoroughly (Fig. 13).



**Figure 13**

- |          |                     |
|----------|---------------------|
| 1. Bolt  | 3. Paper air filter |
| 2. Cover | 4. Foam pre-cleaner |

5. Remove the foam pre-cleaner and wash it with a mild detergent and water, then blot it dry (Fig. 13).
6. Saturate the pre-cleaner with oil, then squeeze it (do not twist) to remove excess oil.
7. Remove the paper air filter (Fig. 13) and clean it by **gently** tapping it to remove the dust. Replace it if it is very dirty.

**IMPORTANT: Do not try to clean a paper filter by using pressurized air.**

8. Install the foam pre-cleaner on the new paper air filter.
9. Install the air cleaner assembly.
10. Install the cover and secure it with the bolt.

## Maintaining the Blade

A straight, sharp blade provides maximum cutting performance. Regularly inspect and sharpen the blade.

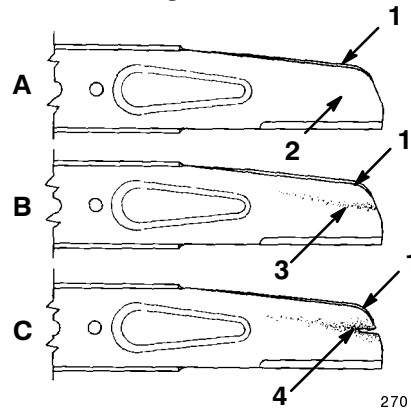
! WARNING !
<p><b>POTENTIAL HAZARD</b></p> <ul style="list-style-type: none"> <li>• The blade is sharp.</li> </ul> <p><b>WHAT CAN HAPPEN</b></p> <ul style="list-style-type: none"> <li>• Contact with a sharp blade can cause serious personal injury.</li> </ul> <p><b>HOW TO AVOID THE HAZARD</b></p> <ul style="list-style-type: none"> <li>• Wear gloves or wrap the sharp edges of the blade with a rag.</li> </ul>

1. Disconnect the wire from the spark plug (Fig. 7).

2. Drain the gasoline from the fuel tank. Refer to *Emptying the Fuel Tank* on page 17.
3. Tip the lawn mower so that the air filter is up.

## Inspecting the Blade

Carefully examine the blade for sharpness and wear, especially where the flat and the curved parts meet (Fig. 14A). Because sand and abrasive material can wear away the metal that connects the flat and curved parts of the blade, check the blade before using the lawn mower. If you notice a slot or wear (Figs. 14B and 14C), replace the blade; refer to *Removing the Blade*.



**Figure 14**

- |                       |                |
|-----------------------|----------------|
| 1. Sail               | 3. Wear        |
| 2. Flat part of blade | 4. Slot formed |

**Note:** For the best performance, install a new blade before the cutting season begins. During the year, file down any small nicks to maintain the cutting edge.

! DANGER !
<p><b>POTENTIAL HAZARD</b></p> <ul style="list-style-type: none"> <li>• A worn or damaged blade can break and a piece of the blade could be thrown into the operator's or bystander's area.</li> </ul> <p><b>WHAT CAN HAPPEN</b></p> <ul style="list-style-type: none"> <li>• A thrown piece of the blade could cause serious personal injury or death to the operator or bystanders.</li> </ul> <p><b>HOW TO AVOID THE HAZARD</b></p> <ul style="list-style-type: none"> <li>• Inspect the blade periodically for wear or damage.</li> <li>• Replace a worn or damaged blade.</li> </ul>

## Removing the Blade

1. Grasp the end of the blade using a rag or thickly padded glove.

2. Remove the blade bolt, the lock washer, the blade accelerator, and the blade (Fig. 15).

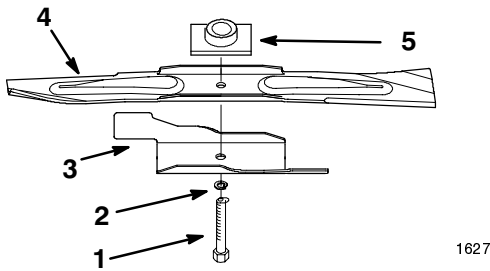


Figure 15

- |                |                 |
|----------------|-----------------|
| 1. Blade bolt  | 4. Blade        |
| 2. Lock washer | 5. Blade driver |
| 3. Accelerator |                 |

## Sharpening the Blade

File the top side of the blade to maintain its original cutting angle (Fig. 16A) and inner cutting edge radius (Fig. 16B).

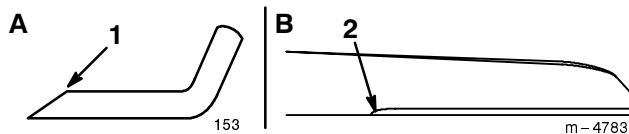


Figure 16

- |                               |                                      |
|-------------------------------|--------------------------------------|
| 1. Sharpen at this angle only | 2. Maintain the original radius here |
|-------------------------------|--------------------------------------|

**Note:** The blade will remain balanced if you remove the same amount of material from both cutting edges.

## Balancing the Blade

1. Check the balance of the blade by placing the center hole of the blade over a nail or a screwdriver shank clamped horizontally in a vise (Fig. 17).

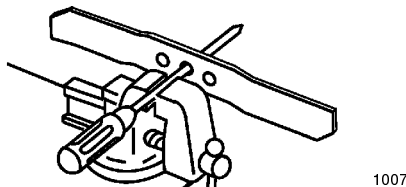


Figure 17

**Note:** You can also check the balance by using a commercially manufactured blade balancer.

2. If either end of the blade rotates downward, file that end (not the cutting edge or the end near the cutting edge). The blade is properly balanced when neither end drops.

## Installing the Blade

1. Position the blade onto the spindle and blade driver, with the curved blade tips pointing toward the lawn mower and the blade driver nesting in the recess of the blade (Fig. 15).
2. Install the accelerator, the lock washer, and the blade bolt (Fig. 15).
3. Tighten the blade bolt to 50 ft-lb (68 N·m).



## WARNING



### POTENTIAL HAZARD

- Operating the lawn mower without the accelerator in place could cause the blade to flex, bend, or break.

### WHAT CAN HAPPEN

- A broken blade could cause serious injury or death to the operator or bystanders.

### HOW TO AVOID THE HAZARD

- Do not operate the lawn mower without the accelerator.

## Lubricating the Self-propel Drive

4. Wipe the grease fittings on the rear height-of-cut adjusters (Fig. 18) with a clean rag.

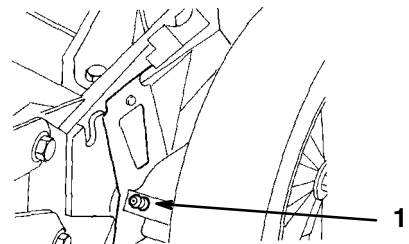


Figure 18

1. Grease fitting

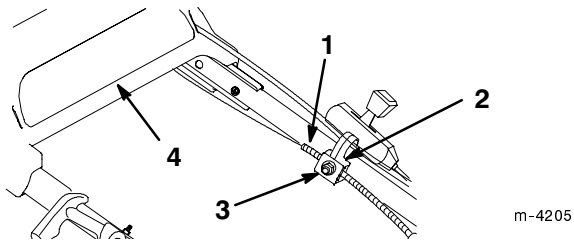
5. Install a grease gun onto each fitting in turn and gently apply one or two pumps of #2 multi-purpose lithium grease to each.

**IMPORTANT:** Excess grease may damage seals and prevent proper wheel clutch operation.

## Adjusting the Self-propel Drive Cable

If the top speed begins to slow down on the lawn mower, adjust the self-propel drive cable.

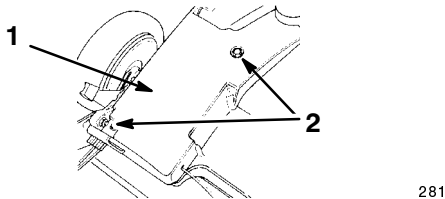
1. Stop the engine and wait for all moving parts to stop.
2. Loosen the cable support nut (Fig. 19).



**Figure 19**

- |                  |                 |
|------------------|-----------------|
| 1. Cable jacket  | 3. Nut          |
| 2. Cable support | 4. Upper handle |

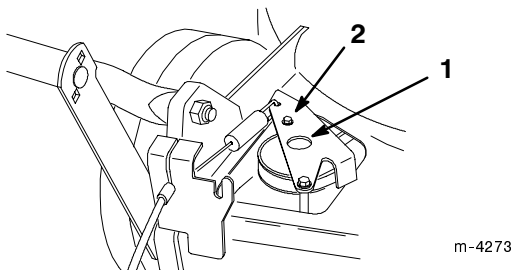
3. Remove the two bolts that secure the belt cover and remove the cover (Fig. 20).



**Figure 20**

- |               |         |
|---------------|---------|
| 1. Belt cover | 2. Bolt |
|---------------|---------|

4. Push down on the drive bracket until it contacts the lawn mower, then hold it in place (Fig. 21).



**Figure 21**

- |                  |              |
|------------------|--------------|
| 1. Drive bracket | 2. Push here |
|------------------|--------------|

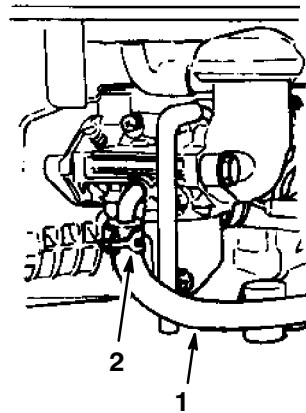
5. While holding the drive bracket down, pull the cable jacket down (toward the lawn mower) until the upper handle retracts as far as possible and there is no slack in the cable (Fig. 21).
6. Release the drive bracket.
7. Tighten the nut on the cable support (Fig. 19).
8. Install the belt cover.

## Cleaning the Fuel Filter

Clean the fuel filter element every 50 operating hours.

1. Stop the engine and wait for it to cool.
2. Disconnect the wire from the spark plug (Fig. 7).
3. Drain the gasoline from the fuel tank. Refer to *Emptying the Fuel Tank* on page 17.

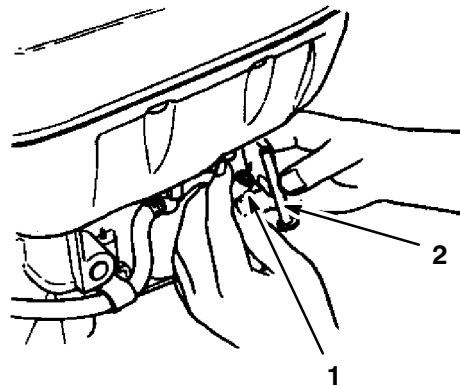
**IMPORTANT: Drain gasoline from a cold engine only.**



**Figure 22**

- |              |               |
|--------------|---------------|
| 1. Fuel tube | 2. Tube clamp |
|--------------|---------------|

4. Remove the fuel tube on the fuel tank by loosening the tube clamp and pulling off the fuel tube (Fig. 23).
5. Remove the fuel filter from the fuel tank (Fig. 23).



**Figure 23**

- |              |                |
|--------------|----------------|
| 1. Fuel tube | 2. Fuel filter |
|--------------|----------------|

6. Clean the fuel filter with a high flash-point solvent.
7. Firmly install the filter, tubes, and clamps.

## Cleaning under the Belt Cover

Keep area under belt cover free of debris.



1. With the engine turned off, remove the two bolts that secure the belt cover (Fig. 20) to the lawn mower housing.
2. Lift off the cover and brush out all debris from the belt area.
3. Install the belt cover.

## Replacing the Spark Plug

Use an *NGK BPR5ES* spark plug or equivalent. Remove the plug after every 100 operating hours and check its condition.

1. Stop the engine and wait for all moving parts to stop.
2. Disconnect the wire from the spark plug (Fig. 7).
3. Clean around the spark plug and remove it from the cylinder head.

**IMPORTANT: Replace a cracked, fouled, or dirty spark plug. Do not clean the electrodes because engine damage could result from grit entering the cylinder.**

4. Set the gap on the new plug to 0.030 in. (0.76 mm) (Fig. 24).

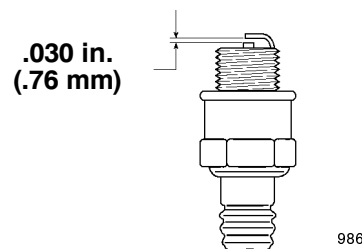


Figure 24

5. Install the spark plug and gasket seal. Tighten the plug to 17 ft-lb (23 N·m).
6. Connect the spark plug wire (Fig. 7).

## Emptying the Fuel Tank

1. Stop the engine and wait for it to cool down.
2. Disconnect the wire from the spark plug (Fig. 7).
3. Remove the cap from the fuel tank (Fig. 5).
4. Use a hand pump to syphon the fuel into a clean approved gasoline container.
5. Connect the wire to the spark plug.
6. Run the engine until it stops.
7. Start the engine again to make sure that all the gasoline is out of the carburetor.

## Troubleshooting

Toro designed and built your lawn mower for trouble-free operation. Check the following components and items carefully. If a problem continues, see your Authorized Service Dealer.

PROBLEM	CORRECTIVE ACTION
Engine will not start	<ol style="list-style-type: none"> <li>1. Fill the fuel tank with fresh gasoline.</li> <li>2. Connect the spark plug wire.</li> <li>3. Inspect the spark plug, check the spark plug gap, and replace the spark plug if it is damaged.</li> </ol>
Engine starts hard or loses power	<ol style="list-style-type: none"> <li>1. Drain and fill the fuel tank with fresh gasoline.</li> <li>2. Clean the gasoline cap vent hole.</li> <li>3. Clean the air filter.</li> <li>4. Clean the lawn mower discharge chute.</li> <li>5. Clean the underside of the lawn mower deck.</li> <li>6. Inspect the spark plug, check the spark plug gap, and replace the spark plug if it is damaged.</li> <li>7. Check the engine oil.</li> </ol>

PROBLEM	CORRECTIVE ACTION
Engine runs rough	<ol style="list-style-type: none"> <li>1. Connect the spark plug wire.</li> <li>2. Inspect the spark plug, check the spark plug gap, and replace the spark plug if it is damaged.</li> <li>3. Clean the air filter.</li> </ol>
Lawn mower or engine vibrates excessively	<ol style="list-style-type: none"> <li>1. Balance the blade.</li> <li>2. Tighten the blade mounting nut.</li> <li>3. Clean the lawn mower discharge chute.</li> <li>4. Clean the underside of the lawn mower deck.</li> <li>5. Tighten the engine mounting bolts.</li> </ol>
Uneven cutting pattern	<ol style="list-style-type: none"> <li>1. Place all four wheels at the same height.</li> <li>2. Sharpen and balance the blade.</li> <li>3. Change the mowing pattern.</li> <li>4. Clean the underside of the lawn mower deck.</li> </ol>
Discharge chute plugs	<ol style="list-style-type: none"> <li>1. Raise the cutting height.</li> <li>2. Allow the grass to dry before mowing.</li> <li>3. Clean the underside of lawn mower deck.</li> </ol>
Lawn Mower will not self-propel	<ol style="list-style-type: none"> <li>1. Adjust the self-propel drive cable.</li> <li>2. Clean the debris under the belt cover.</li> </ol>

## Storage

To prepare the lawn mower for off-season storage, perform the recommended maintenance procedures. Refer to *Maintenance* on page 11.

Store the lawn mower in a cool, clean, dry place. Cover the lawn mower to keep it clean and protected.

## Preparing the Fuel System



### WARNING



#### POTENTIAL HAZARD

- Gasoline can vaporize if you store it over long periods of time.

#### WHAT CAN HAPPEN

- Vaporized gasoline can explode if it comes into contact with an open flame.

#### HOW TO AVOID THE HAZARD

- Do not store gasoline over long periods of time.
- Do not store the lawn mower with gasoline in the fuel tank or the carburetor in an enclosure with an open flame. (For example, a furnace or a water heater pilot light.)
- Allow the engine to cool before storing it in any enclosure.

We recommend a fuel conditioner to stabilize the fuel for storage. If possible, treat the last fuel fill of the season with a fuel conditioner.

1. Add a petroleum distillate-based fuel stabilizer to the fuel tank according to the manufacturer's instructions (typically one ounce per gallon of fuel).

**IMPORTANT: Do not use an fuel stabilizer with an alcohol base such as ethanol, methanol, or isopropanol.**

2. Run the engine for five minutes to distribute the conditioned fuel throughout the fuel system.
3. Stop the engine and allow it to cool.
4. Drain the gasoline from the fuel tank; refer to *Emptying the Fuel Tank* on page 17.
5. Dispose of gasoline properly. Recycle it according to local codes, or use it in your automobile.
6. Start the engine and run it until it stops from running out of fuel.
7. Choke or prime the engine and start it again.
8. Allow the engine to run until it stops. When you can no longer start the engine, it is sufficiently dry.

**Note:** Do not store stabilized gasoline for more than 90 days.

## Preparing the Engine



1. While the engine is still warm, change the oil from the crankcase. Refer to *Changing the Engine Oil* on page 12.
2. Remove the spark plug (Fig. 7).
3. Using an oil can, add about one tablespoon of oil through spark plug hole.
4. Slowly rotate the engine several times, using the starter rope, to distribute the oil.
5. Install spark plug but **do not** connect the wire to the spark plug.

## General Information

1. Clean the lawn mower housing. Refer to *Cleaning the Underside of the Lawn Mower Housing* on page 13.
2. Clean any dirt and chaff from the cylinder, cylinder head fins, and blower housing. Also remove grass clippings, dirt, and grime from external parts of the engine, shrouding, and top of the lawn mower housing.

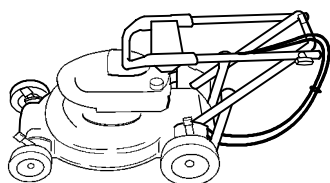
3. Check the condition of the blade. Refer to *Maintaining the Blade* on page 14.
4. Tighten all nuts, bolts, and screws.
5. Lubricate the wheels. Refer to *Lubricating the Self-Propel Drive* on page 15.
6. Touch up all rusted or chipped paint surfaces with paint available from an Authorized Service Dealer.

## Folding the Handle

	<b>WARNING</b>	
<b>POTENTIAL HAZARD</b>		
<ul style="list-style-type: none"><li>• Folding or unfolding the handle improperly can pinch, stretch, or damage one or more of the cables.</li></ul>		
<b>WHAT CAN HAPPEN</b>		
<ul style="list-style-type: none"><li>• Any pinched, stretched, or damaged cable may cause an operational failure that results in an unsafe operating condition.</li></ul>		
<b>HOW TO AVOID THE HAZARD</b>		
<ul style="list-style-type: none"><li>• Do not pinch, stretch, or damage the cables.</li><li>• Handle the cables with care when folding or unfolding the handle.</li><li>• Do not use the lawn mower if one or more of the cables are pinched, stretched, or damaged. Contact your Authorized Service Dealer.</li></ul>		

**IMPORTANT: Do not remove or loosen the knobs that secure the lower handle to the swing bracket. Do not fold the upper handle backward.**

1. Loosen the knobs that secure the upper handle.
2. Carefully swing the upper handle forward until it rests on the engine (Fig. 25).



m-4217

**Figure 25**

## Removing from Storage



### WARNING



#### POTENTIAL HAZARD

- Folding or unfolding the handle improperly can pinch, stretch, or damage one or more of the cables.

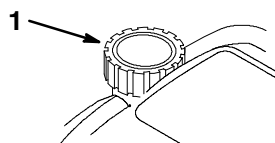
#### WHAT CAN HAPPEN

- Any pinched, stretched, or damaged cable may cause an operational failure that results in an unsafe operating condition.

#### HOW TO AVOID THE HAZARD

- Do not pinch, stretch, or damage the cables.
- Handle the cables with care when folding or unfolding the handle.
- Do not use the lawn mower if one or more of the cables are pinched, stretched, or damaged. Contact your Authorized Service Dealer.

- Carefully unfold the upper handle until it nests with the lower handle, then tighten the knobs.
- Check and tighten all fasteners.
- Remove the spark plug (Fig. 7) and spin the engine rapidly using the starter to blow excess oil from the cylinder.
- Clean the spark plug or replace it if it is cracked, broken, or the electrodes are worn.
- Install the spark plug and torque it to 17 ft-lb. (23 N·m).
- Perform the recommended maintenance procedures. Refer to *Maintenance* on page 11.
- Fill the fuel tank (Fig. 26) with fresh, clean gasoline.



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**Figure 26**

- Fuel tank cap

- Check the engine oil level.

- Connect the spark plug wire (Fig. 7).

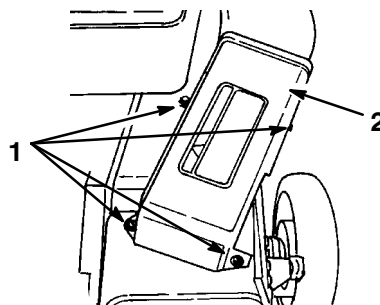
## Accessories

Accessories may have been shipped with your lawn mower or are available from your Authorized Service Dealer. For proper installation, follow these instructions.

### Rear Grass Catcher

#### Installing the Discharge Tunnel

- Disconnect the spark plug wire.
- Remove and save the four bolts securing the cover and deflector assembly to the lawn mower (Fig. 27). Save the parts for future use.

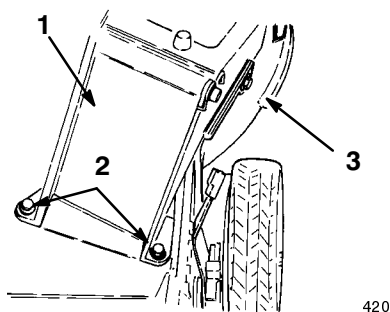


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**Figure 27**

- Bolt (4)
- Cover and deflector assembly

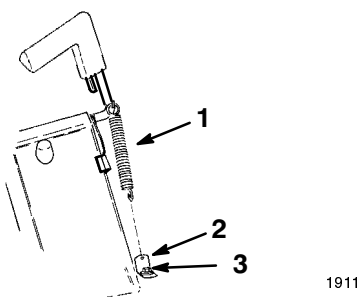
- Position the discharge tunnel and door assembly on the lawn mower, aligning the holes in the discharge tunnel with holes in the lawn mower (Fig. 28).



**Figure 28**

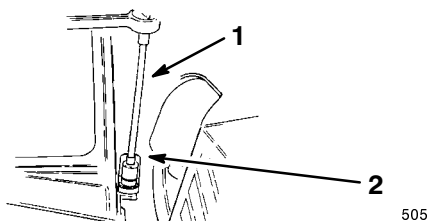
1. Discharge tunnel
2. Vertical bolts
3. Horizontal bolt

4. Fasten the front right, rear right, and rear left corners of the discharge tunnel to the lawn mower, using the bolts saved from step 2. Ensure that the shorter horizontal bolt is installed in the front right location.
5. Secure the spring bracket and discharge tunnel to the lawn mower with the left front bolt (Fig. 29). A socket set extension may be necessary (Fig. 30).



**Figure 29**

1. Spring
2. Spring bracket
3. Left front bolt



**Figure 30**

1. Socket set extension
2. Spring bracket

6. Hook the end of the spring through the small hole on the spring bracket (Fig. 29).

7. Open and close the discharge door to ensure that the spring is not contacting any part of the engine and that the door closes when the handle is released.



## WARNING



### POTENTIAL HAZARD

- Ensure that the spring does not contact the gas tank or any other part of the engine.

### WHAT CAN HAPPEN

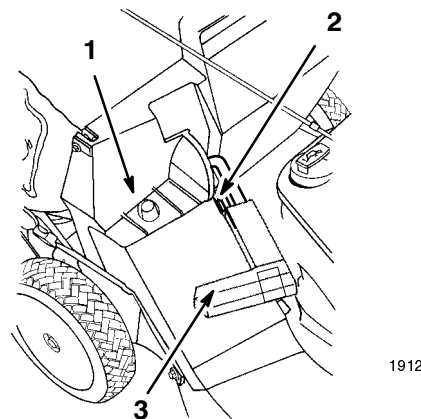
- Wear between the spring and engine parts may result in an unsafe operating condition.

### HOW TO AVOID THE HAZARD

- If the spring contacts any part of engine, do not install the bagger kit on the lawn mower and contact an Authorized Service Dealer before proceeding.

## Using the Grass Bag

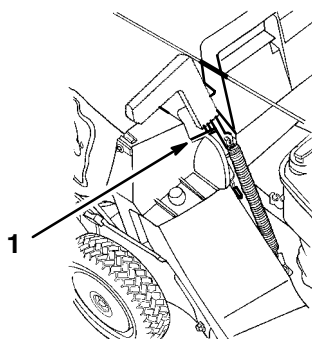
1. Stop the engine and wait for all moving parts to stop.
2. Ensure that the discharge door handle is fully forward and the pin is engaged in the catch (Fig. 31).



**Figure 31**

1. Bag frame on retaining post
2. Pin contacting latch plate
3. Handle fully forward—discharge door closed



3. Slide the hole in the bag frame onto the retaining post on the discharge tunnel (Fig. 31).
4. Set the rear of the bag frame onto the lower handle.
5. Open the discharge door by pulling the discharge door handle forward until the pin clears the ramp on the bag door and moving the handle rearward until the pin locks in the bag notch (Fig. 32).



**Figure 32**

1. Pin in bag notch

1913

 <b>DANGER</b> 
<p><b>POTENTIAL HAZARD</b></p> <ul style="list-style-type: none"> <li>• A worn grass bag could allow small stones and other similar debris to be thrown in operator's or bystander's direction.</li> </ul> <p><b>WHAT CAN HAPPEN</b></p> <ul style="list-style-type: none"> <li>• Thrown objects can cause serious personal injury or death to the operator or bystanders.</li> </ul> <p><b>HOW TO AVOID THE HAZARD</b></p> <ul style="list-style-type: none"> <li>• Check the grass bag frequently. If it is damaged, install a new Toro replacement bag.</li> </ul>

6. Cut grass until the bag is full.



**IMPORTANT: Do not overfill the bag.**



7. Stop the engine and wait for all moving parts to stop.

8. Pull the discharge door handle up and out of the bag notch (Fig. 32) and pull it forward until it engages the catch (Fig. 31).

9. Remove the bag from the lawn mower and empty the grass.

Always ensure that the discharge tunnel door closes when you release the handle. If debris prevents the discharge door from closing, clean the inside of the discharge tunnel and door thoroughly. Perform all the cleaning procedures described in the *Operator's Manual*.

 <b>DANGER</b> 
<p><b>POTENTIAL HAZARD</b></p> <ul style="list-style-type: none"> <li>• Thrown objects may result if the discharge door does not close completely.</li> </ul> <p><b>WHAT CAN HAPPEN</b></p> <ul style="list-style-type: none"> <li>• Thrown objects can cause serious personal injury or death.</li> </ul> <p><b>HOW TO AVOID THE HAZARD</b></p> <ul style="list-style-type: none"> <li>• If the discharge door cannot be closed because grass clippings clog the discharge area, stop the engine and gently move the discharge door handle back and forth until the door can be closed completely. If door still cannot be closed, remove the obstruction with a stick; not your hand.</li> </ul>

 <b>DANGER</b> 
<p><b>POTENTIAL HAZARD</b></p> <ul style="list-style-type: none"> <li>• Grass clippings and other objects can be thrown from an open discharge tunnel.</li> </ul> <p><b>WHAT CAN HAPPEN</b></p> <ul style="list-style-type: none"> <li>• Objects thrown with enough force could cause serious personal injury or death to the operator or bystander.</li> </ul> <p><b>HOW TO AVOID THE HAZARD</b></p> <ul style="list-style-type: none"> <li>• Never open the door on the discharge tunnel when the engine is running.</li> </ul>









# The Toro Starting Guarantee

## *A Full 10 Year Warranty on Toro Mower Model 20044 Engines*

### **What Is Covered?**

The Toro Company guarantees that your Toro Engine will start on the first or second pull for ten years from the date of purchase—if you provide the routine maintenance it requires—or we will fix it free of charge. The cost of parts and labor are included, but you must pay transportation costs.

### **What Must You Do To Keep The Warranty In Effect?**

You must maintain your Toro Engine by following the maintenance schedule detailed in the operator's manual, at your expense. You must record this work in the maintenance chart provided in your owner's manual and keep your proof of purchase of mower and all maintenance service parts.

### **How Do You Get Service?**

If the starting performance of your Toro Engine should diminish to the point where it will not start in one or two pulls by a normal, able-bodied adult, you should follow the procedures below:

1. Contact any Authorized Toro Service Dealer, Toro Master Service Dealer, or Toro Distributor (the Yellow Pages of your telephone directory is a good reference source). Or, call 1-800-421-9684 for the Toro 24 hour dealer locator system.
2. You will be instructed to return the product to that outlet or another Authorized Toro Service outlet which might be more convenient.
3. Bring the product, your maintenance records, and proof of purchase to the Service Dealer.

If, for any reason, you are dissatisfied with the Dealer's analysis of your engine's starting condition, or the assistance provided, please feel free to contact us:

Toro Customer Service Department  
8111 Lyndale Avenue South  
Bloomington, Minnesota 55420-1196

### **What Does This Warranty Not Cover?**

This Warranty does not cover:

1. Any repairs on products used commercially.
2. Normal maintenance including replacement of spark plugs, air filter, fuel filter, and carburetor adjustments.
3. Oil change and lubrication.
4. Repairs or adjustments due to:
  - A. Failure to follow proper maintenance procedures;
  - B. Rotary mower blade striking an object;
  - C. Contaminants in the fuel system;
  - D. Improper fuel or fuel mixture (consult your owner's manual if in doubt);
  - E. Failure to drain the fuel system prior to any period of non-use over three months;
  - F. Operation misuse, neglect or accidents;
  - G. Repairs or attempted repairs by anyone other than an Authorized Toro Service Dealer.
5. Special operational conditions where starting may require more than two pulls, including:
  - A. First time starts after extended period of non-use or seasonal storage;
  - B. Cool temperature starts such as those found in early spring and late autumn may require an additional pull or two;
  - C. Improper starting procedures. If you are having difficulty starting your unit, please check the operator's manual to ensure you are using the correct starting procedures. This can save an unnecessary visit to a Service Dealer.

All warranty repairs reimbursable under this warranty must be performed by an Authorized Toro Service Dealer using Toro approved replacement parts.

The above remedy through repair by an Authorized Toro Service Dealer is the purchaser's sole remedy.

### How Does State Law Relate To This Warranty?

There is no other express warranty except for The Toro Performance Warranty and special emission system coverage on some products.

The Toro Company is not 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, so the above exclusion 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.

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 maintenance procedures outlined in this Operator's Manual at the intervals specified in the Maintenance section. Record all maintenance activities on this chart.

[illegible]



Gas, Cordless,  
Electric, and 21"  
Commercial Duty  
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:

<u>Products</u>	<u>Warranty Period</u>
• Super Recycler® Walk Mowers	5 year full warranty
• VacuPower® Walk Mowers	5 year full warranty
• All Others	2 year full warranty

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

This warranty applies to all gas, cordless, and electric consumer walk power mowers.

\* 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.

#### 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:

<u>Products</u>	<u>Warranty Period</u>	
	<u>Engine</u>	<u>Entire Unit</u>
• 21" Commercial Duty Walk Mowers	2 year limited	1 year limited
• All Others	45 day limited	45 day limited

#### Instructions for Obtaining Warranty Service

Should you feel your Toro Product contains a defect in materials or workmanship, contact the dealer who sold you the product or any Authorized Service Dealer or Master Service Dealer. The Yellow Pages of your telephone directory is a good reference source. The dealer will either arrange service at his/her dealership or recommend another Authorized Service Dealer who may be more convenient. You may need proof of purchase (copy of registration card, sales receipt, etc.) for warranty validation.

If for any reason you are dissatisfied with the Service Dealer's analysis of the defect in materials or workmanship or if you need a referral to a Toro Service Dealer, please feel free to contact us at:

Customer Service Department  
Toro Warranty Company  
8111 Lyndale Avenue South  
Bloomington, MN 55420-1196  
612-888-8801  
800-348-2424

#### 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, electrical supply irregularities, or failure to properly prepare the mower prior to any period of non-use.
- Pickup and delivery charges.

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

#### General Conditions

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.