FORM NO. 3314-283

OPERATOR'S MANUAL

21" (0.53 M) HP RECYCLER ™ FINGERTIP START

SAFETY INSTRUCTIONS

MODEL NO. 20103 - 1000001 & UP

This mower "meets or exceeds CPSC blade safety requirements for walk behind rotary mowers" and the B71.1-1986 specifications of the American National Standards Institute. However, improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, follow these safety instructions and always pay attention to the safety alert symbol. Failure to follow these instructions may result in personal injury.

#### BEFORE OPERATING

1. Read this manual carefully before operating the mower. Become familiar with the controls and proper use of the mower. Never allow children to operate the mower or adults to operate it without proper instructions.

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2. Keep everyone, especially children and pets, away from area of operation. Thoroughly inspect area where mower will be used and remove sticks, stones, wire, and debris.

3. Wear long pants and substantial shoes. Do not operate mower while wearing open sandals or when barefoot.

4. Always wear safety glasses or eye shields during operation to protect eyes from foreign objects that may be thrown from the machine.

5. Check fuel level before starting engine. Do not fill fuel tank indoors or when the engine is running. Wait until engine cools for several minutes after running. Wipe up spilled gasoline before starting engine.

6. Keep all guards, shields, and safety devices in place. Repair or replace defective or damaged parts, including decals.

7. Engine and blade are designed to stop when control bar is released. As-

sure control bar and brake function properly before each use of mower.

#### WHILE OPERATING

8. Do not run engine indoors.

**9.** Always maintain secure footing. Keep a firm grip on the handle and walk; never run. Never operate mower in wet grass. Mow only in daylight or in good artificial light.

**10.** Mow across the face of slopes; never up and down. Use extreme caution when changing direction on slopes. Do not mow excessively steep slopes.

11. Keep face, hands, and feet away from the mower housing and cutter blade when the engine is running. Stay behind the handle until the engine stops and keep clear of discharge opening at all times.

**12.** When bagging grass, stop engine and assure discharge door is closed before removing and emptying bag.

**13.** Shut engine off and wait for all moving parts to stop before unclogging discharge tunnel, removing grass bag or Recycler plug.

14. Since the blade rotates for a few seconds after releasing the blade control, stay behind the handle until all moving parts stop.

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# **A**SAFETY INSTRUCTIONS

15. After striking a foreign object or if mower vibrates abnormally, stop engine and remove wire from spark plug. Check mower for damage and make all repairs before using mower again.
16. Stop the engine before adjusting the height-of-cut.

17. Stop the engine when crossing a gravel driveway, road, or sidewalk.
18. Stop engine before leaving the operator's position—behind the handle. Disconnect wire from spark plug if mower will be unattended or not used.
19. Do not touch engine while it is running or shortly after it is stopped because engine will be hot enough to cause a burn.

#### MAINTENANCE AND STORAGE

**20.** Perform only those maintenance instructions described in this manual. If major repairs are ever needed or if help is desired, contact your local Authorized TORO Service Dealer.

**21.** Before cleaning, inspecting, servicing or adjusting mower, stop engine. Disconnect wire from spark plug. Keep wire away from plug to prevent accidental starting.

22. To assure the mower is in safe operating condition, frequently check and

keep all nuts, bolts, and screws tight. Assure blade bolt is tightened to 50 ft-lb (68 N·m).

**23.** To reduce fire hazard, keep engine free of excessive grease, grass, leaves, and accumulations of dirt.

24. Check grass catcher bag frequently for wear or deterioration. If bag is worn, replace with a new bag for your protection. Check that replacement bags comply with original TORO recommendations or specifications.

**25.** Allow engine to cool before storing mower in any enclosure. Do not store mower with gasoline in fuel tank near any open flame or where gasoline fumes may be ignited by a spark.

**26.** Do not overspeed the engine by changing governor settings.

27. At the time of manufacture, the mower conformed to the safety standards in effect for rotary mowers. To assure best performance and continued safety certification of the mower, use genuine TORO replacement parts and accessories. Replacement parts and accessories made by other manufacturers may result in non-conformance with the safety standards, and that could be dangerous.



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



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### **SET-UP INSTRUCTIONS**

#### **INSTALL HANDLE**

**1.** Align handles and tighten handle knobs (Fig. 1). Bend handle latches slightly toward each other (Fig. 1).



Figure 1

2. Pivot handle backward until handle stud snaps into center hole of handle latch (Fig. 2). If handle height is not satisfactory, adjust by placing handle stud into a different hole.



#### Figure 2 INSTALL RECYCLER DISCHARGE PLUG

1. Open the discharge door by pulling forward on the handle and moving it rearwards (Fig. 3). Hold the discharge door handle to prevent the spring-loaded door from closing while inserting the plug.

2. Since the plug is slightly wider than the discharge tunnel opening, rotate the plug clockwise slightly while inserting it (Fig. 3). Make sure the arrow on the plug decal is pointing upwards.



#### Figure 3

**3.** Push the plug all the way in until the spring clip on the bottom of the plug clicks into place, locking the plug securely into the discharge tunnel (Fig. 4). Release discharge door handle to lock top of plug.



Figure 4

### **BEFORE OPERATING**

DANGER: Gasoline is extremely flammable and explosive under certain conditions. Do not smoke when handling fuel. Keep fuel far away from open flames and sparks. Never buy more than a 30 day supply of gasoline. Store it in an approved container. Keep gasoline out of reach of children.

WARNING

Refuel outdoors and <u>only</u> when engine is cold. Do not fill tank full. Fill tank to within 1/4" to 1/2" (6 to 13 mm) from top of tank, not into filler neck. This space is for expansion of fuel. Use funnel or spout to prevent spilling. Wipe up any spilled gas.

MIX GASOLINE AND OIL (Fig. 5)

This product uses a two-cycle engine which requires a mixture of gasoline and two-cycle oil (50:1 gas/oil ratio). Failure to use proper fuel mixture will cause serious engine damage.

1. OIL—For best performance, use Toro Two-Cycle Oil. If Toro Two-Cycle Oil is not available, use another high grade two-cycle oil that has the NMMA or BIA-TCW certification printed on the label. Mix fresh, unleaded gasoline and oil as specified in the chart on the following page. Unleaded gasoline burns cleaner, extends engine life, and promotes good starting by reducing the build-up of combustion chamber deposits. Leaded regular gasoline can be used if unleaded is not available.

NEVER USE AUTOMOTIVE OIL (i.e. SAE 30, 10W30 etc.), TWO-CYCLE OIL THAT IS NOT CERTIFIED NMMA/ BIA-TCW OR THE WRONG MIX RATIO BECAUSE THE ENGINE CAN BE DAM-AGED, AND IT WOULD NOT BE COV-ERED BY WARRANTY.

Toro also recommends that Toro Stabilizer/Conditioner be used regularly in all Toro gasoline powered products during operation and storage seasons. Toro Stabilizer/Conditioner cleans the engine during operation. It also prevents gumlike varnish deposits from forming in the engine during periods of storage. 2. Mixing Gasoline and Oil—Pour correct amount of two-cycle oil into an approved gasoline container and add the correct amount of gasoline (see chart on following page for correct measurements). Install cap on gasoline container and shake the container to mix oil and gas thoroughly. Remove cap and add remaining amount of gasoline.

IMPORTANT: NEVER USE METHANOL, GASOLINE CONTAINING METHANOL, GASOHOL CONTAINING MORE THAN 10% ETHANOL, PREMIUM GASOLINE OR WHITE GAS BECAUSE ENGINE FUEL SYSTEM DAMAGE COULD RE-SULT.

DO NOT USE FUEL ADDITIVES OTHER THAN THOSE MANUFACTURED FOR FUEL STABILIZATION DURING STOR-AGE SUCH AS TORO'S STABILIZER/ CONDITIONER OR A SIMILAR PROD-UCT. TORO'S STABILIZER/CONDI-TIONER IS A PETROLEUM DISTILLATE BASED CONDITIONER/STABILIZER. TORO DOES NOT RECOMMEND STA-BILIZERS WITH AN ALCOHOL BASE SUCH AS ETHANOL, METHANOL OR ISOPROPYL. ADDITIVES SHOULD NOT BE USED TO TRY TO ENHANCE THE POWER OR PERFORMANCE OF MA-CHINE.

Note: Do not mix gasoline and oil in the product fuel tank. Oil that is at room temperature mixes easier and more thoroughly than cold oil.

## **BEFORE OPERATING**

50:1 GAS/OIL Mixing Chart



## RECYCLING

#### SPECIAL RECYCLER FEATURES

The Toro Recycler is a mower with a new and completely different cutting concept. It leaves your lawn with a bagged look without bagging clippings.

The Toro Recycler is equipped with special parts which increase your mower's ability to recycle grass clippings, leaves, and other yard debris down into the grass. These parts are:

A. A special blade and blade stiffener

**B.** Four special "kicker plates" positioned on the underside of the mower deck in strategic positions (Fig. 6)

C. A special plug which locks into the mower's discharge tunnel (a fifth kicker is on the plug) (Fig. 7)

The blade and four kicker plates are permanent parts of your mower. Remove the blade only for sharpening or replacement. Never remove the kickers, unless they need to be replaced. They do not interfere with the normal bagging or optional side discharge operations of the mower.







Figure 7

6

### RECYCLING

The plug, however, is a removable part, just as the grass bag and optional side discharge chute are removable parts. You cannot use the plug in combination with either the grass bag or the side discharge chute. Use the plug only for recycling.

Although the plug is used only for recycling, it is possible to mow without using the plug by closing the discharge tunnel door. However, your recycling will be much more effective if you use the plug. It has an additional kicker (Fig. 8) that helps drive the clippings down into the grass.



1. The Recycler plug is locked in place.

2. The bag is locked in place.

3. The side discharge chute is locked in place.

4. The discharge door is locked closed.

Mow grass in dry conditions only. For safety reasons, never operate mower in wet grass. There is the possibility that you may slip on wet grass and that your foot might slide into the blade path.

WARNING

#### TIPS FOR RECYCLING GRASS CLIPPINGS

Even with the Recycler, you may encounter conditions where it is not possible to hide all of the recycled clippings or leaves all of the time down in the grass. Follow these instructions for the best recycling results and qualityof-cut:

• In the heat of the summer, it is best to cut grass at the C, D or E height-ofcut settings. Cut only about 1/3 of the grass blade. Cutting below the C setting is not recommended unless grass is sparse or it is late fall when grass growth begins to slow down. When cutting long grass, you may need to use a higher height-of-cut setting and a slower walking speed; then recut the grass at a more normal setting. If grass is too long and leaves clumps on top of lawn, mower may plug and cause engine to stall.

**NOTE:** When bagging, you can cut taller grass.

• When cutting grass over 6" tall, you may want to cut the lawn twice to hide clippings down in the grass.

• Maintain a sharp blade throughout the cutting season. Periodically file down nicks on blade.

• Clean any residue from the underside of mower housing, kickers, and plug after each use. See Cleaning Mower Housing, Discharge Tunnel, and Recycler Plug, page 14.

• Alternate mowing direction. This helps disperse clippings over lawn for even fertilization.

If the recycling quality-of-cut appears marginal, try one or more of the following:

• Raise the height-of-cut setting on your mower.

- Cut your grass more frequently.
- Walk at a slower pace while mow-ing.

• Overlap cutting swaths instead of cutting a full swath with each pass.

• Mow across the marginal areas a second time.

• Use the grass bag or optional side discharge chute.

#### TIPS FOR RECYCLING LEAVES

You may recycle leaves in the fall instead of bagging. If you decide to bag, the Recycler reduces the number of leaf bags you will need by finely chopping up the leaves before they enter the grass bag. Some leaf particles will be recycled back down into the soil. When spring arrives, the leaf particles will have decomposed and returned valuable nutrients to the soil.

• Recycle your leaves when more than 50% of the lawn can be seen through the leaf cover. If less than 50% of the lawn can be seen through the leaves, it is a good idea to bag. • For light leaf coverage, recycle with all wheels at the same height-of-cut setting.

• If there are more than 5" of leaves on lawn, set the front wheels one or two notches higher than the rear wheels. This makes it easier to feed leaves under mower deck.

• Walk at a slower mowing speed if recycled leaves are not cut up finely enough to be hidden down in the grass.

• If you recycle a lot of oak leaves, you might want to add lime to your grass in the spring. Lime reduces the acidity of oak leaves.

### **OPERATING INSTRUCTIONS**

#### GENERAL OPERATING TIPS

1. BEFORE EACH MOWING-Assure engine brake and control bar function properly. When control bar is released, blade and engine are designed to stop.

#### STARTING AND STOPPING

1. CONTROLS—Throttle, control bar, and fingertip starter are on upper handle (Fig. 8).



Figure 8

**2.** Push spark plug wire onto spark plug (Fig. 14).

3. STARTING—Move throttle to CHOKE. Cover hole in center of primer (Fig. 14) with thumb and push once. Lift control bar to handle and hold. Pull fingertip starter out until positive engagement results; then pull vigorously to start the engine. Regulate throttle (Fig. 8) as desired when engine starts.

Note: When starting a warm engine, choke and primer may not be necessary.

4. STOPPING-To stop engine, release control bar. Pull wire off spark plug if mower will be unattended or not used.

#### USING RECYCLING PLUG

1. Make sure engine is off. Open the discharge door by pulling forward on the handle and moving it rearwards (Fig. 9). Hold the discharge door handle to prevent the spring-loaded door from closing while inserting the plug.

2. Since the plug is slightly wider than the discharge tunnel opening, you must rotate the plug clockwise slightly while inserting it (Fig. 9). Make sure the arrow on the plug decal is pointing upwards.

## **OPERATING INSTRUCTIONS**



**3.** Push the plug all the way in until the spring clip on the bottom of the plug clicks into place, locking the plug securely into the discharge tunnel (Fig. 10). Release the discharge door handle to lock the top of the plug.



Figure 10

4. To remove the plug, move the discharge door handle rearwards while at the same time lift up the spring clip on the bottom of the plug. When the plug is unlocked, pull it out of the discharge tunnel.

**Note:** When grass is thick and lush, clippings may collect on and around the Recycler plug. This may make plug removal difficult. Clean Recycler plug thoroughly after each use. Refer to Cleaning Mower Housing, Discharge Tunnel and Recycler Plug, page 14.

#### USING GRASS BAG

Occasionally you may wish to use the grass bag for bagging extra long grass, lush grass or leaves.

1. Stop engine and wait for all moving parts to stop.

2. Assure discharge door handle is fully forward and pin is engaged in catch (Fig. 11).

**3.** INSTALLING BAG—Slide hole in bag frame onto retaining post on discharge tunnel (Fig. 11). Set rear of bag frame onto lower handle.



Figure 11

## **OPERATING INSTRUCTIONS**

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Except when grass bag, side discharge attachment or Recycler discharge plug is installed, never open discharge door on mower when engine is running. Grass clippings and other debris discharges with enough force to cause injury.

The grass bag material will catch and contain most foreign objects such as small stones and other similar debris. The bag material, however, is subject to normal wear and deterioration. So check the bag frequently, and if it is defective, install a new genuine TORO replacement bag that has this or a similar warning.

4. Pull discharge door handle forward until pin clears catch and move handle rearward until pin locks in bag notch (Fig. 12). Discharge door in mower housing is now open.



Figure 12

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If discharge door cannot be closed because grass clippings clog discharge area, turn engine off and gently move discharge door handle back and forth until door can be closed completely. Do not force discharge door closed because door or handle may be damaged. If door still cannot be closed, remove obstruction.

5. EMPTYING BAG—Stop engine and wait for all moving parts to stop. Raise discharge door handle and move it forward to engage the locking pin with catch (Fig. 11). Grasp handles at front and rear of bag and lift bag off mower. Gradually tip bag forward to empty clippings.

6. To reinstall bag, repeat steps 3-4.

ADJUSTING HEIGHT-OF-CUT (Fig. 13)

Five letters cast into the housing represent each graduated height-of-cut setting.



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

### **OPERATING INSTRUCTIONS**

2. For easier adjustment, lift housing up so wheel is off ground. Do not put fingers under housing when lifting. Squeeze adjusting lever toward wheel and move to desired setting. Assure pin on adjusting lever engages slot in housing. Adjust all wheels to the same setting.

**Note:** Front wheels can be adjusted to 1/2 inch. Move adjusting lever past "A" and release pin into slot in housing.

### MAINTENANCE



performing adjustments or maintenance.

#### SERVICING AIR CLEANER

Normally, clean air cleaner after every 25 operating hours. Clean air cleaner more frequently when operating mower in dusty or dirty conditions.

**1.** Stop engine and pull wire off spark plug (Fig. 14).

**2.** Lift tabs at top of air cleaner cover and pivot cover down (Fig. 14). Clean cover thoroughly.



Figure 14

**3.** If outside of foam element is dirty, remove it from air cleaner body (Fig. 14). Clean thoroughly.

A. WASH foam element in a solution of liquid soap and warm water. Squeeze to remove dirt, but do not twist be-cause foam may tear. Rinse thoroughly in clear water.

B. Dry by wrapping in a clean rag. Squeeze rag and foam element to dry.

C. SATURATE element with 25 ml (5 teaspoons) of SAE 30 engine oil. Squeeze element to remove excess oil and to distribute oil thoroughly. A damp element is desirable.

4. Reinstall foam element (flange side facing outward) and air cleaner cover.

IMPORTANT: Do not operate engine without air cleaner element. Extreme engine wear and damage will likely result.

#### **REPLACING SPARK PLUG**

Use an NGK BPMR4A spark plug or equivalent. Correct air gap is 0.032" (0.8 mm). Remove plug after every 25 operating hours and check its condition.

1. Stop engine and pull wire off spark plug (Fig. 14).

2. Clean around spark plug and remove plug from cylinder head.

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

**3.** Set air gap at 0.032" (0.8 mm) (Fig. 15). Install correctly gapped spark plug and gasket seal. Tighten plug firmly to 10 ft-lb (13.6 N·m).

## MAINTENANCE



Figure 15

#### DRAINING GASOLINE

1. Stop engine and wait for engine to cool. Pull wire off spark plug (Fig. 14).



2. Remove cap from fuel tank and use a pump-type syphon to drain fuel into a clean gas can.

Note: This is the only procedure recommended for draining fuel.

#### ADJUSTING THROTTLE

Throttle control adjustment may be required if engine does not start or stop. Whenever a new throttle control cable is installed, throttle must be adjusted. **1.** Stop engine and pull wire off spark plug (Fig. 14).

2. Move throttle control to FAST position.

**3.** Loosen cable clamp screw until throttle cable slides (Fig. 16).

4. Check to see if holes in throttle lever and choke lever are aligned (Fig. 16). If not, follow adjustment pro-

cedure in step 5.

5. ADJUSTMENT-A small diameter pin may be inserted into aligned holes to hold adjustment. Push throttle cable until throttle lever contacts choke lever (Fig. 16). Tighten cable clamp screw to lock adjustment in place. Remove pin.



Figure 16

#### INSPECTING/REMOVING/SHARPENING BLADE

Always mow with a sharp blade. A sharp blade cuts cleanly and without tearing or shredding the grass blades like a dull blade.

**1.** Stop engine and pull wire off spark plug (Fig. 14).

2. Drain gasoline from fuel tank; refer to Draining Gasoline, page 12.

3. Tip mower on its right side

(Fig. 17). Avoid rotating the blade because starting problems may result.



Figure 17

### MAINTENANCE

4. INSPECTING BLADE—Carefully examine blade for sharpness and wear, especially where flat and curved parts meet (Fig. 18A). Sand and abrasive material can wear away the metal that connects the flat and curved parts of the blade. Check blade before using the mower. If a slot or wear is noticed, (Fig. 18B & C), replace blade. Refer to step 5.

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



Figure 18



resulting in serious injury to yourself or a bystander.

5. REMOVING BLADE—Grasp end of blade using a rag or thickly padded glove. Remove blade bolt, lockwasher, blade stiffener, and blade (Fig. 17).
6. SHARPENING BLADE—Using a file, sharpen top side of blade and maintain original cutting angle (Fig. 19). The blade will remain balanced if the same

amount of material is removed from both cutting edges.

IMPORTANT: Check balance of blade by putting it on a blade balancer. An inexpensive balancer can be bought at a hardware store. A balanced blade stays in a horizontal position and an unbalanced blade settles to the heavy side. If blade is not balanced, file more metal off cutting edge on heavy end of blade.

7. Install sharp, balanced blade with blade stiffener, lockwasher, and blade bolt. Sail part of blade must point toward top of mower housing to assure correct installation. Tighten blade bolt to 50 ft-lb (68 N·m).



Figure 19

#### LUBRICATION

After every 25 operating hours or when season ends, lubricate front and rear wheels.

1. Apply 2 or 3 drops of light oil on inside and outside of all wheel bolts. Spin wheels to distribute oil into bushings. Wipe up excess oil.

#### ADJUSTING BLADE BRAKE

Whenever a new blade brake cable assembly is installed, an adjustment is required.

1. Stop engine and pull wire off spark plug (Fig. 14).

2. CHECK ADJUSTMENT

(Fig. 20)—Move control bar toward handle until slack in wire is removed. Gap between brake lever and handle must be 3/16" - 1/4". See step 3 for adjustment.

### MAINTENANCE

#### 3. ADJUST CABLE CONDUIT

(Fig. 20)—Loosen nut on cable bracket. Insert 3/16" – 1/4" object between brake lever and handle. Pull down on cable conduit until all slack is removed from wire. Then tighten nut.



Figure 20

#### CLEANING MOWER HOUSING, DIS-CHARGE TUNNEL, AND RECYCLER PLUG

To assure best performance, the Recycler plug must be cleaned after each use. When grass is thick and lush, clippings may collect on and around the Recycler plug; this may make plug removal difficult. Remove plug from discharge tunnel and clean off all debris.

Keep underside of mower housing clean. Be especially careful to keep kickers on underside of mower housing free of debris (Fig. 21).



Figure 21

Always be sure that discharge tunnel door locks closed when handle is released. If debris prevents discharge door from locking closed, clean inside of discharge tunnel and door thoroughly.



4. The discharge door is locked closed.

1. Stop engine. Wait for all moving parts to stop. Pull wire off spark plug (Fig. 14).

**2.** Drain gasoline from fuel tank: refer to Draining Gasoline, page 12.

**3.** Tip mower on its right side (Fig. 21). Avoid rotating blade because starting problems may result.

4. Remove dirt and grass clippings that stick to housing. Spray housing with a garden hose. Scrape out remaining debris with a hardwood scraper. Avoid burrs and sharp edges.

5. Turn mower upright.

6. Remove debris from inside of discharge tunnel.

7. Clean Recycler plug.

#### PREPARING MOWER FOR STORAGE

1. For long term storage, either drain gasoline from fuel tank or use a fuel stabilizer before storing. To drain gasoline, refer to Draining Gasoline, page 12. After fuel is drained, start engine and let it idle until all fuel is consumed and engine stops. Repeat the starting procedure two more times to assure all gas is removed from the engine. If gasoline is not drained, gumlike varnish deposits will form and cause poor engine operation or starting problems.

Fuel can be left in gas tank only if a fuel stabilizer, such as Toro's Stabilizer/Conditioner, is added to gasoline and run through engine before storing. Toro's Stabilizer/Conditioner is a petroleum distillate based conditioner/stabilizer. Toro does not recommend stabilizers with an alcohol base, such as ethanol, methanol or isopropyl. Use fuel stabilizer in recommended quantities as specified on container.

Under normal conditions, all fuel stabilizers remain effective in fuel for 6-8 months.

2. Remove spark plug and pour 2 tablespoons of SAE 10W30 oil into hole in cylinder. Pull starter rope slowly to coat inside of cylinder. Install spark plug and tighten to 10 ft-lbs (13.6 N·m). DO NOT INSTALL WIRE ON SPARK PLUG.

 Clean mower housing, discharge tunnel, and Recycler plug: refer to Cleaning Mower Housing, Discharge Tunnel, and Recycler plug, page 14.
 Check condition of blade: refer to Inspecting/Removing/Sharpening Blade, page 12.

 Tighten all nuts, bolts, and screws.
 Clean dirt and chaff from cylinder, cylinder head fins, and blower housing. Also remove grass clippings, dirt, and grime from external parts of the engine, shrouding, and top of mower housing.

7. Clean air cleaner: refer to Servicing Air Cleaner, page 11.

8. Lubricate the wheels: refer to Lubrication, page 13.

**9.** Touch up all rusted or chipped paint surfaces. Toro Re-Kote paint is available from an Authorized TORO Service Dealer.

**10.** Store mower in a clean, dry place. Cover mower to keep it clean and protected.

### **OPTIONAL EQUIPMENT**

For special conditions the following accessories may be purchased at your local authorized TORO Service Dealer.

1. Side Discharge Kit, Model No. 59168—Installs in seconds. Rear mounted in place of the grass bag or Recycler plug. Disperses clippings while trimming on both sides (Fig. 22).



Figure 22

2. Dethatcher Kit, Model No. 59131—Installs in minutes. Front mounted for easy maneuverability. Spring tines loosen thatch for recycling or clean vacuuming into grass bag (Fig. 23).



Figure 23

**3.** Spark Arrestor (Part # 81–0200)—If a spark arrestor is required because of local, state or federal regulations, purchase it at your local Authorized TORO Service Dealer. If mower is operated on any California forest, brush or grass covered land without a properly operating spark arrestor, the operator is violating state law, Section 4442 Public Resources Code.

### **TORO SERVICE SUPPORT**

If help - concerning safety, set-up, operation, maintenance, or troubleshooting - is ever needed, contact the local Authorized TORO Service Dealer or Distributor. Refer to the "Yellow Pages" for help. In addition to skilled service technicians, the dealer and distributor have factory approved accessories and replacement parts. Keep your Toro all TORO. Buy genuine TORO replacement parts and accessories.

## **PRODUCT IDENTIFICATION**

A model and a serial number decal is located at rear of mower housing, near the discharge door. Always refer to specific numbers on this decal in correspondence or when ordering replacement parts.

It is Toro's policy to design and produce high quality products. To ensure customer satisfaction, Toro has extensive warranty coverage on its products. Your TORO GTS Engine powered product has two warranty statements covering it. The Toro Promise is our standard warranty statement and is printed on the last page of this manual. In addition to The Toro Promise, we are so confident that the TORO GTS Engine will provide a high level of performance and durability that we are providing a *Starting Guarantee!* Please read the details of this additional warranty coverage printed below.

## THE TORO STARTING GUARANTEE

A Five Year Limited Warranty On All Toro GTS Engines

### What Is Covered?

The Toro Company guarantees that your TORO GTS 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. The cost of parts and labor are included, but you must pay transportation costs. This covers TORO GTS rotary mower engines purchased after September 1, 1988, and TORO GTS snow engines (Models 38180 and 38185) purchased after August 31, 1989.

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

You must maintain your TORO GTS 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.

### How Do You Get Service?

If the starting performance of your TORO GTS 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:

- 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).
- 2. He will either instruct you to return the product to him or recommend 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 Minneapolis, Minnesota 55420

### 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 fall may require an additional pull or two (applies to rotary products only);

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 Promise. All implied warranties of merchantability (that the product is fit for ordinary use) and fitness for use (that the product is fit for a particular purpose) are limited to the duration of the express warranty. Some states do not allow limitation on how long implied warranties last, so the above exclusion may not apply to you.

The Toro Company is not liable for indirect, incidental or consequential damages in connection with the use of the product, including any cost or expense of providing substitute equipment or service during periods of malfunction or non-use.

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.

### **GUARANTEED TO START MAINTENANCE RECORD**

To keep the starting guarantee in effect, you must perform the following maintenance after every 25 operating hours, more often in dusty and dirty conditions. Follow the procedures in this Operator's Manual and record information on this chart.

Date	Hours Used	Service Air Cleaner	Change Oil Doesn't apply to 2-Cycle	Lubricate Wheels	Check Spark Plug	Mower Storage
		<u> </u>				

#### The Toro Promise A Two Year Limited Warranty On All Gasoline Powered Consumer Products The Toro Company promises to repair these TORO Products if defective in materials or workmanship. The following time periods from the date of purchase apply: Residential Product ..... 2 Years Residential Products Used Commercially ..... 45 Days Straight Shaft Trimmers, 3 H.P. Edger, Back Pack Blowers, 5 H.P. Lawn Vac, 5 H.P. Blower Used Commercially ..... 90 Days The cost of parts and labor are included, but the customer pays the transportation costs. Just return any residential product to an Authorized TORO Service Dealer or TORO Distributor. Should you feel your TORO Product is defec-Some states do not allow limitations tive and wish to rely on The Toro Promise, the on how long implied warranty lasts, so following procedure is recommended: the above limitation may not apply to vou. 1. Contact any Authorized TORO Service This Warranty applies only to parts or Dealer, TORO Master Service Dealer, or components which are defective and TORO Distributor (the Yellow Pages of does not cover repairs necessary due your telephone directory is a good referto normal wear, misuse, accidents, or ence source). lack of proper maintenance. Regular, 2. He will either instruct you to return the routine maintenance of the unit to keep product to him or recommend another it in proper operating condition is the Authorized TORO Service outlet which responsibility of the owner. might be more convenient. All warranty repairs reimbursable under The Toro Promise must be performed 3. Bring the product along with your original by an Authorized Toro Service Dealer sales slip, or other evidence of purchase date, to the service dealer. using Toro approved replacement parts. 4. The servicing dealer will inspect the unit, Repairs or attempted repairs by anyone advise you whether the product is defecother than an Authorized TORO Service tive and, if so, make all repairs neces-Dealer are not reimbursable under the sary to correct the defect without extra TORO Promise. In addition, these uncharge to you. authorized repair attempts may result in If for any reason you are dissatisfied with additional malfunctions, the correction of the dealer's analysis of the defect or the which is not covered by warranty. service performed, you may contact us. THE TORO COMPANY IS NOT LIABLE FOR INDIRECT OR CONSEQUENTIAL Write: TORO Customer Service Dept. DAMAGES IN CONNECTION WITH THE 8111 Lyndale Avenue South USE OF THE PRODUCT INCLUDING Minneapolis, MN 55420 ANY COST OR EXPENSE OF PROVID-ING SUBSTITUTE EQUIPMENT OR The above remedy of product defects through repair by an Authorized TORO Service Dealer SERVICE DURING PERIODS OF MALis the purchaser's sole remedy for any de-FUNCTION OR NON-USE. fect. Some states do not allow the exclusion of incidental or consequential damages, so THERE IS NO OTHER EXPRESS WARRANTY the above exclusion may not apply to you. EXCEPT FOR THE TORO STARTING GUAR-ANTEE ON GTS ENGINES. ALL IMPLIED This warranty gives you specific legal WARRANTIES OF MERCHANTIBILITY AND rights, and you may also have other FITNESS FOR USE ARE LIMITED TO THE rights which vary from state to DURATION OF THE EXPRESS WARRANTY.

COUNTRIES OTHER THAN THE UNITED STATES OR CANADA

state.

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 The Toro Company.