

MODEL NO. 20219 - 1000001 & UP

OPERATOR'S MANUAL

21" RECYCLER® MOWER

A

SAFETY INSTRUCTIONS

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, comply with these safety instructions and always pay attention to the safety alert symbol . Failure to comply with 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.
- 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.** Check fuel level before starting engine. Do not fill fuel tank indoors, when the engine is running, or until engine cools for several minutes after running. Wipe up spilled gasoline before starting engine.
- **5.** Keep all guards, shields, and safety devices in place. Repair or replace defective or damaged parts, including decals.
- **6.** Traction drive and blade are designed to stop when control bar is released. Ensure control and brake function properly before each use of mower.

WHILE OPERATING

- 7. Do not run engine indoors.
- 8. 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.
- **9.** Mow across the face of slopes; never up and down. Use extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
- 10. Always wear safety glasses or eye shields during operation to protect eyes from foreign objects

that may be thrown from the machine. 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.

- 11. Since the blade rotates for a few seconds after the control bar is released, stay behind the handle until all moving parts stop.
- 12. 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.
- 13. Stop the engine before adjusting the height-of-cut.
- 14. Stop the blade when crossing a gravel driveway, road, or sidewalk.
- 15. Stop engine before leaving the operator's position—behind the handle. Disconnect wire from spark plug if mower will be unattended or not used.
- 16. 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

- 17. Perform only those maintenance instructions described in this manual. If major repairs are ever needed or if assistance is desired, contact your local Authorized TORO Service Dealer.
- 18. Before mower is cleaned, inspected, serviced, or adjusted, stop engine and disconnect wire from spark plug. Keep wire away from plug to prevent accidental starting.
- 19. To ensure the mower is in safe operating condition, frequently check and keep all nuts, bolts, and screws tight. Ensure blade nuts are tightened to 25–33 ft-lb.
- 20. To reduce fire hazard, keep engine free of excessive grease, grass, leaves, and accumulations of dirt.

A SAFETY INSTRUCTIONS

- 21. Allow engine to cool before storing mower in any enclosure. Do not store mower near any open flame or where gasoline fumes may be ignited by a spark.
- 22. Do not overspeed the engine by changing governor settings.
- 23. At the time of manufacture, the mower con-

formed to the safety standards in effect for rotary mowers. To assure optimum 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

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) PLACE FOOT HERE WHEN STARTING

ON STEP PAD (Part No. 46-7370)



UNDER DEFLECTOR-COVER ON MOWER HOUSING (Part No. 82-8450)















KEEP BYSTANDERS FROM AREA BEING MOWED. STOP ENGINE BEFORE LEAVING OPERATOR POSITION. KEEP ALL GUARDS IN PLACE.

ON CONTROL PANEL (Part No. 63-9060)

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SET-UP INSTRUCTIONS

INSTALL HANDLE

- 1. Align handles and tighten handle knobs (Fig. 1). Bend handle latches (Fig. 1) slightly outward so they will not be in the way when pivoting the handle backward into the operating position.
- 2. Pivot handle backward. Bend handle latches inward while snapping handle stud into center hole of handle latch (Fig. 1).

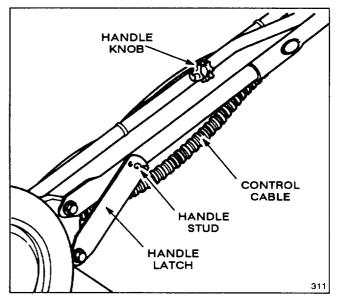


Figure 1

BEFORE OPERATING

FILL CRANKCASE WITH OIL

Initially, crankcase must be filled with 18 ounces (0.532 L) of SAE 10W30 oil. Use any high quality detergent oil having the American Petroleum Institute (API) "service classification"—SC, SD, SE or SF.

Before each use, ensure oil level is between FULL and ADD marks on dipstick (Fig. 2). Add oil if level is low.

- 1. Position mower on level surface and clean around oil dipstick.
- 2. Remove dipstick by rotating cap counterclockwise 1/4 turn.
- 3. Wipe dipstick and insert it into filler neck. Rotate cap clockwise 1/4 turn. Then remove dipstick and check level of oil (Fig. 2). If level is low, add only enough oil to raise level to FULL mark on dipstick. DO NOT FILL ABOVE FULL MARK BECAUSE ENGINE COULD BE DAMAGED WHEN STARTED. POUR OIL SLOWLY.
- 4. Insert dipstick into filler neck and rotate cap clockwise 1/4 turn to lock.

Note: Check oil level each time mower is used or after every 5 operating hours. Initially, change oil after the first 2 hours of operation; thereafter, change oil after every 25 hours of operation. More frequent oil changes are required in dusty or dirty conditions.

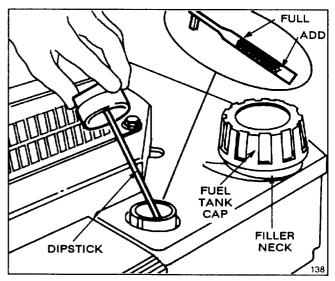


Figure 2



WARNING

DANGER: Gasoline is extremely flammable and explosive under certain conditions. Do not smoke when handling fuel and 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.

Refuel outdoors and only 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.

BEFORE OPERATING

FILL FUEL TANK WITH GASOLINE

Note: The Toro Company strongly recommends the use of fresh, clean, <u>UNLEADED</u> regular grade gasoline in Toro gasoline powered products. Unleaded gasoline burns cleaner, extends engine life, and promotes good starting by reducing the build-up of combustion chamber deposits. Leaded gasoline can be used if unleaded is not available.

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 and prevents gum-like varnish deposits from forming in the engine during periods of storage.

1. Clean around fuel tank cap and remove cap from tank (Fig. 2). Using unleaded gasoline, fill fuel tank to within 1/4 to 1/2 inch (6 to 13 mm) from top of tank, not into filler neck. This space is for expansion of fuel. Do not fill tank full.

2. Install fuel tank cap and wipe up any spilled gasoline.

IMPORTANT: DO NOT MIX OIL WITH THE GASO-LINE. NEVER USE <u>METHANOL</u>, GASOLINE CON-TAINING <u>METHANOL</u>, GASOHOL CONTAINING MORE THAN 10% ETHANOL, PREMIUM GASO-LINE, OR WHITE GAS BECAUSE ENGINE FUEL SYSTEM DAMAGE COULD RESULT.

DO NOT USE FUEL ADDITIVES OTHER THAN THOSE MANUFACTURED FOR FUEL STABILIZATION DURING STORAGE SUCH AS TORO'S STABILIZER/CONDITIONER OR A SIMILAR PRODUCT. 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. ADDITIVES SHOULD NOT BE USED TO TRY TO ENHANCE THE POWER OR PERFORMANCE OF MACHINE.

RECYCLER® MOWER TIPS

RECYCLER® MOWER FEATURES

Your Toro Recycler® mower has a new and completely different cutting concept; it leaves your lawn with a bagged look without bagging clippings.

The mower is equipped with special parts which increase your mower's ability to cut and recut grass clippings, leaves, and other yard debris into tiny particles which are injected down into the grass. These parts are:

- A special blade and blade stiffener
- Four special "kicker plates" positioned on the underside of the mower deck in strategic positions (Fig. 3)

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.

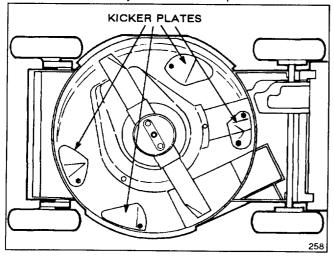


Figure 3



Wet grass can cause you to slip and contact blade. Blade contact can seriously injure you. Mow only in dry conditions.

TIPS FOR CUTTING GRASS

Even with the Recycler® mower, you may encounter conditions where it is not possible to hide all of the grass clippings or leaves all of the time down in the lawn. Follow these instructions for the best cutting results and lawn appearance:

- Maintain a <u>sharp blade</u> throughout the cutting season. Periodically file down nicks on blade.
- Clean any residue from the underside of mower housing and kickers after each use. See Cleaning Mower Housing, page 10.
- When cutting grass over 6" tall, you may want to cut the lawn twice to hide clippings down in the grass.
- In the heat of the summer, it is best to cut grass at the C, D or E height-of-cut 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.

RECYCLER® MOWER TIPS

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

If the lawn appearance is not satisfactory, try one or more of the following:

- Sharpen the blade.
- Walk at a slower pace while mowing.
- Raise the height-of-cut setting on your mower.
- Cut your grass more frequently.
- Overlap cutting swaths instead of cutting a full swath with each pass.
- Mow across the marginal areas a second time.

TIPS FOR CUTTING LEAVES

In the fall, use the Recycler® mower to cut leaves up into finely cut particles which will be injected down into the grass. When spring arrives, the leaf

particles will have decomposed and returned valuable nutrients to the soil.

- Sharpen the blade.
- When cutting is complete, always be sure that 50% of the lawn shows through the cut leaf cover. This may require one or more passes over the leaves.
- For light leaf coverage, mow 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 leaves are not cut up finely enough to be hidden down in the grass.
- If you cut up 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

STARTING, STOPPING, AND SELF-PROPELLING

1. CONTROLS—Throttle, ground speed control, and blade/self-propelled control bar are on upper handle (Fig. 4). Fingertip starter is on top of engine (Fig. 6).

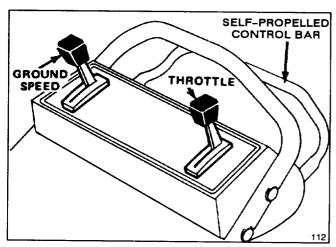


Figure 4

- 2. Push spark plug wire onto spark plug (Fig. 5).
- 3. Move ground speed control to "N" (Fig. 4).
- **4.** Move throttle to CHOKE. Pull engine mounted fingertip starter out until positive engagement results; then pull vigorously to start the engine (Fig. 6). When engine starts, remove throttle from CHOKE and regulate throttle as desired. When temperature is near 40°F, a few extra pulls may be required because the engine needs priming.

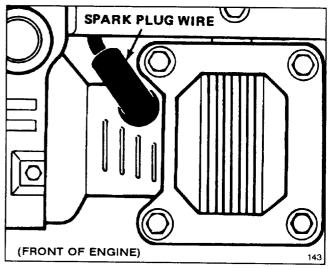


Figure 5

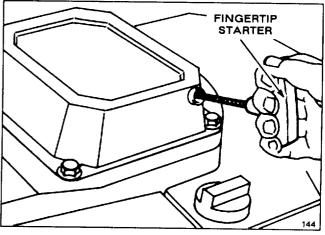


Figure 6

OPERATING INSTRUCTIONS

5. BLADE AND TRACTION OPERATION (Fig. 7)—Move control bar down to "A" and raise to engage blade "B". Move ground speed control to desired setting and squeeze control bar against handle "C" to drive. Ground speed varies, depending on space between control bar and handle. To disengage traction drive but keep blade engaged, gradually release control bar to mid position. To self-propel with blade disengaged, simply squeeze control bar against handle, eliminating downward movement necessary for blade engagement.

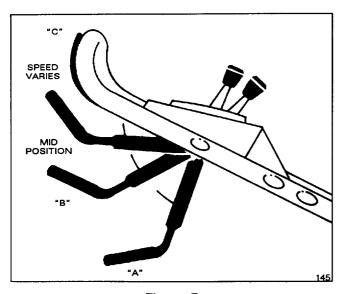


Figure 7

6. STOPPING (Fig. 4)—Release control bar to stop blade and traction drive. Move ground speed control to "N". To stop engine, move throttle to OFF. Pull wire off spark plug if mower will be unattended or not used.

ADJUSTING HEIGHT-OF-CUT

Five letters cast into the housing represent each graduated height-of-cut settting (Fig. 8).

- 1. Stop the engine.
- 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 (Fig. 8). Assure pin on adjusting lever engages notch 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 notch in housing.

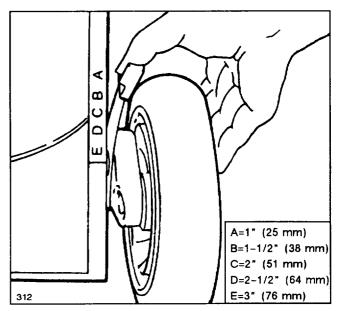


Figure 8
CHECK CONTROL BAR OPERATION

Control bar should be checked before each use to ensure the Blade Brake Clutch (BBC) system is operating properly.

- 1. Start engine; refer to Starting, Stopping, and Self-Propelling, page 5.
- 2. Push the control bar down to the lowest position (Fig. 14). This "latches" the mechanism prior to engaging the blade.

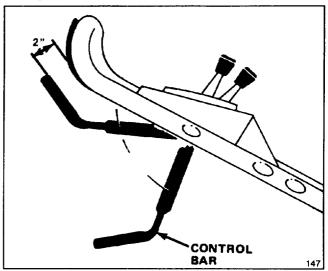


Figure 9

- 3. Lift the control bar to the normal "blade engaged" position, about 2" below the handle (Fig. 14). The "fan" noise indicates that the mower blade is engaged and rotating.
- 4. Release the control bar. A "bang" should be heard, and the blade should stop within 3 seconds. If the blade does not stop within 3 seconds when the control bar is released, stop using mower until it has been serviced by an Authorized TORO Service Dealer.

OPERATING INSTRUCTIONS

If the control bar "hangs up" and the blade does not quickly stop, it indicates possible deterioration has set in, which could result in an unsafe operating condition. Have mower inspected by an Authorized TORO Service Dealer. CAUTION: If the control bar "hangs up", and the blade does not stop quickly, you should stop the blade before shutting off the engine. This can be done by raising the control bar to the normal operating position and releasing it.

MAINTENANCE



Pull wire off spark plug before performing adjustments or maintenance.

SERVICING AIR CLEANER

Normally, clean air cleaner after every 25 operating hours. More frequent cleaning is required when mower is operated in dusty or dirty conditions.

- 1. Stop engine and pull wire off spark plug (Fig. 5).
- 2. Push in locking tabs and lift off air cleaner cover. Clean cover thoroughly (Fig. 10).

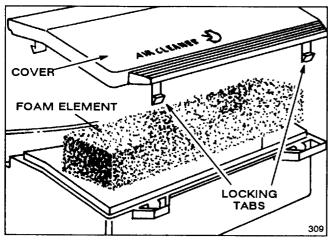


Figure 10

- 3. If top of foam element is dirty, remove it from air cleaner body (Fig. 10). Clean thoroughly.
- A. WASH foam element in a solution of liquid soap and warm water. Squeeze to remove dirt, but do not twist because 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 5 teaspoons (25 ml) of SAE 10W30 engine oil. Squeeze element to remove excess oil and to distribute oil thoroughly. A damp element is desirable.
- 4. Reinstall foam element and air cleaner cover.

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

REPLACING SPARK PLUG

Use an NGK BPR6ES spark plug or equivalent. Correct air gap is 0.032" (0.81 mm). Remove plug after every 25 operating hours and check its condition.

- 1. Stop engine and pull wire off spark plug (Fig. 5).
- 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" (0.81 mm) (Fig. 11). Install correctly gapped spark plug and gasket seal. Tighten plug firmly to 15 ft-lb (20.4 N·m).

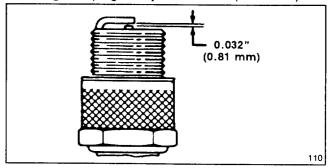


Figure 11

DRAINING GASOLINE

- 1. Stop engine. Pull wire off spark plug (Fig. 5).
- 2. Remove cap from fuel tank and use pumptype syphon to drain fuel into 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. Move throttle control to FAST.
- 2. Loosen cable clamp bolt until throttle cable slides (Fig. 12). Align holes in throttle lever and throttle bracket. Pull throttle cable slightly to remove any slack and tighten cable clamp bolt to lock adjustment in place.

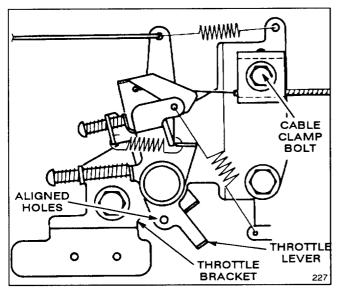


Figure 12

CHANGING CRANKCASE OIL

Change oil after the first 2 operating hours and after every 25 hours thereafter. Since warm oil drains better and carries more contaminants than cold, run engine for a minute or so before draining oil.

- 1. Stop engine. Pull wire off spark plug (Fig. 5).
- 2. Drain gasoline from fuel tank: refer to Draining Gasoline, page 7.
- 3. Raise left side of mower at least 12 inches (Fig. 13). Remove drain plug using a 14mm or 9/16" wrench. Place a drain pan at left side of mower.

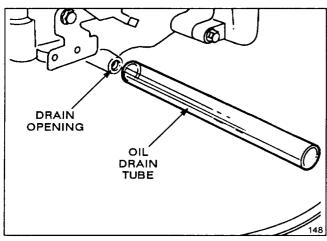


Figure 13

- **4.** Insert oil drain tube over drain opening. Lower mower to allow oil to drain into pan. Raise right side of mower until all oil has flowed into drain pan.
- **5.** After draining, install drain plug and fill engine with fresh oil: refer to Fill Crankcase With Oil, page 3.

ADJUSTING WHEEL DRIVE

If mower does not self-propel or has a tendency to creep forward when drive is not engaged, adjust wheel drive control knob on rear of gear box.

- 1. Stop engine and pull wire off spark plug (Fig. 5).
- 2. Lift control bar until some resistance is felt. Control bar should be 1-1/2" from handle when properly adjusted (Fig. 14).

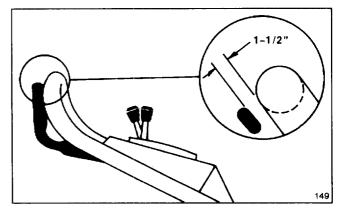


Figure 14

3. ADJUSTMENT (Fig. 15)—Rotate control knob clockwise to increase distance between control bar and handle. Rotate knob counterclockwise to decrease distance between control bar and handle.

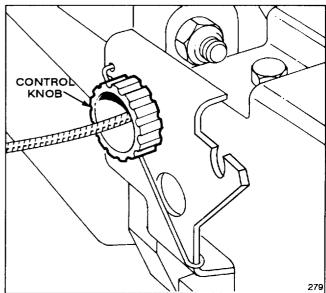


Figure 15

4. Repeat steps 2 and 3 until properly adjusted.

INSPECTING/REMOVING/SHARPENING BLADE

- 1. Stop engine. Pull wire off spark plug (Fig. 5).
- 2. Drain gasoline from fuel tank; refer to Draining Gasoline, page 7.

3. Tip mower on its right side (Fig. 16). Avoid rotating blade because starting problems may result.

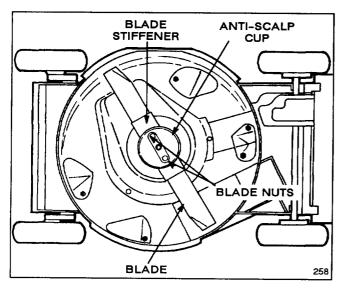


Figure 16

4. INSPECTING BLADE—Carefully examine blade for sharpness and wear, especially where flat and curved parts meet (Fig. 17A). Since 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. 17B & 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.

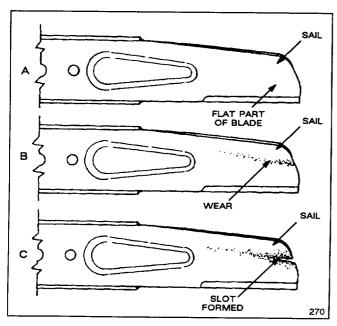


Figure 17



If blade is allowed to wear, a slot may form near the sail. Eventually a piece of blade may break off resulting in serious injury to yourself or a bystander.

- 5. REMOVING BLADE—Grasp end of blade using a rag or thickly padded glove. Remove (2) blade nuts, anti-scalp cup, blade stiffener, and blade (Fig. 16).
- **6.** SHARPENING BLADE—Using a file, sharpen top side of blade and maintain original cutting angle (Fig. 18). The blade will remain balanced if same amount of material is removed from both cutting edges.

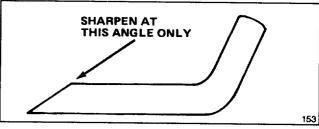


Figure 18

IMPORTANT: Check balance of blade by putting it on a blade balancer. An inexpensive balancer can be purchased 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 TORO blade, blade stiffener, anti-scalp cup, and (2) blade nuts. Sail part of blade must point toward top of mower housing to assure correct installation. Tighten the blade nuts to 25–33 ft-lb.

LUBRICATION

After every 25 operating hours or when season ends, front and rear wheels must be lubricated.

- 1. Apply 2 or 3 drops of light oil on inside of front and outside of all wheel bolts. Spin wheels to distribute oil into bushings. Wipe up excess oil.
- 2. Move rear wheel height-of-cut levers to "C" setting. Wipe grease fittings with clean rag (Fig. 19). Install grease gun onto fitting and gently apply 2 or 3 pumps of #2 Multi-Purpose Lithium Base Grease.

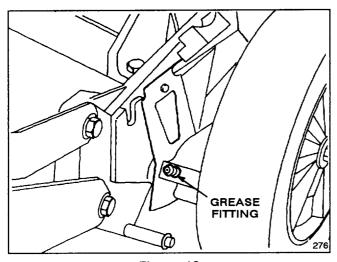


Figure 19

ADJUSTING BLADE BRAKE

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

- 1. Stop engine. Pull wire off spark plug (Fig. 5).
- 2. Loosen cable clamp screw until brake cable conduit slides (Fig. 20). Pull cable to remove slack, but do not put tension on spring. Tighten screw to lock adjustment in place.

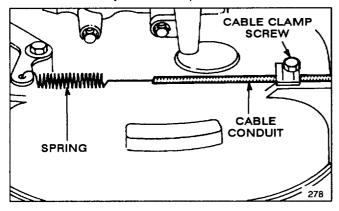


Figure 20

CLEANING BLADE BRAKE CLUTCH SHIELD

The BBC (Blade Brake Clutch) shield should be cleaned periodically, at the end of each mowing season at minimum, to ensure best performance and to prevent parts degradation.

- 1. Stop engine. Pull wire off spark plug (Fig. 5).
- 2. Drain gasoline from fuel tank; refer to Draining Gasoline, page 7.
- 3. Tip mower on its right side.
- 4. Remove (2) blade nuts, anti-scalp cup, blade stiffener, blade, and (3) bolts and washers securing BBC shield to mower deck (Fig. 21).

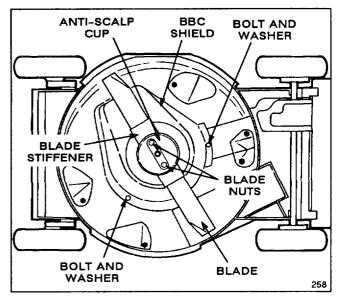


Figure 21

- 5. Brush or blow debris from inside of shield.
- **6.** Reinstall BBC shield with (3) bolts and washers, blade, blade stiffener, anti-scalp cup, and (2) blade nuts.
- 7. Replace spark plug wire.

CLEANING MOWER HOUSING

To ensure best performance, keep underside of mower housing clean.

- 1. Drain gasoline from fuel tank: refer to Draining Gasoline, page 7.
- 2. Tip mower on its right side (Fig. 22). Avoid rotating blade because starting problems may result.

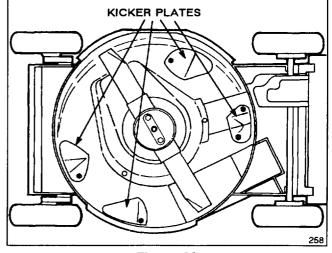


Figure 22

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

PREPARING MOWER FOR STORAGE

1. For long term storage, either drain gasoline from fuel tank or add a fuel stabilizer to the gasoline. To drain gasoline, refer to Draining Gasoline, page 7. 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, gum-like varnish deposits will form and cause poor engine operation, even starting problems.

Fuel can be left in gas tank only if a fuel additive, 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 additive in recommended quantities as specified on container.

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

- 2. Drain oil: refer to Changing Crankcase Oil, page 8. After oil is drained, do not fill crankcase with oil until the following steps (3-11) are completed.
- 3. 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 15 ft-lb (20.4 N·m). **DO NOT INSTALL WIRE ON SPARK PLUG.**

- 4. Clean mower housing: refer to Cleaning Mower Housing, page 10.
- 5. Clean BBC shield: refer to Cleaning Blade Brake Clutch Shield, page 10.
- **6.** Check condition of blade: refer to Inspecting/Removing/Sharpening Blade, page 8.
- 7. Tighten all nuts, bolts, and screws.
- 8. 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.
- **9.** Clean air cleaner: refer to Servicing Air Cleaner, page 7.
- **10.** Lubricate the wheels: refer to Lubrication, page 9.
- 11. Touch up all rusted or chipped paint surfaces. Toro Re-Kote paint is available from an Authorized TORO Service Dealer.
- 12. Fill crankcase with oil; refer to Fill Crankcase With Oil, page 3.
- 13. 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. Rear Bagging Kit, Model No. 59174—install discharge tunnel and rear mounting grass bag to convert Recycler® mower to a rear bagging mower (Fig. 23). Includes discharge tunnel plug.

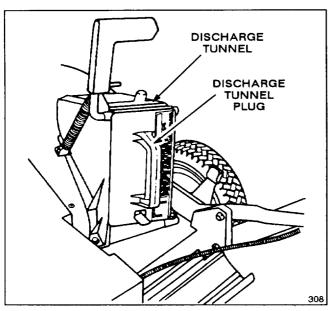


Figure 23

2. Dethatcher Kit, Model No. 59131— As spring tines on the Toro Dethatcher (Fig. 24) scratch and vibrate through the grass, thatch is loosened and cut and recut by the mower.

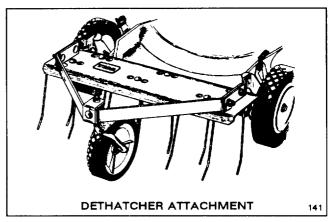


Figure 24

3. Spark Arrestor, Part No. 56-6730—If a spark arrestor is required because of local, state, or federal regulations, it may be purchased 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 assistance. 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 on underside of control panel. Always refer to specific numbers on this decal in correspondence or when replacement parts are needed.

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:

- 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).
- 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	Air Cleaner Service	Change Oil Doesn't Apply to 2-Cycle	Lubricate Wheels	Check Spark Plug	Mower Storage
-						
	- W. B					

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 work-manship. 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 defective and wish to rely on The Toro Promise, the following procedure is recommended:

- 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).
- 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 along with your original sales slip, or other evidence of purchase date, to the service dealer.
- 4. The servicing dealer will inspect the unit, advise you whether the product is defective and, if so, make all repairs necessary to correct the defect without extra charge to you.

If for any reason you are dissatisfied with the analysis of the defect or the service performed, you may contact us.

Write: TORO Customer Service Dept. 8111 Lyndale Avenue South Minneapolis, MN 55420

The above remedy of product defects through repair by an Authorized TORO Service Dealer is the purchaser's sole remedy for any defect.

THERE IS NO OTHER EXPRESS WARRANTY EXCEPT FOR THE TORO STARTING GUARANTEE ON GTS ENGINES. ALL IMPLIED

WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

Some states do not allow limitations on how long implied warranty lasts, so the above limitation may not apply to you.

This Warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine maintenance of the unit to keep it in proper operating condition is the responsibility of the owner.

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

Repairs or attempted repairs by anyone other than an Authorized TORO Service Dealer are not reimbursable under the TORO Promise. In addition, these unauthorized repair attempts may result in additional malfunctions, the correction of which is not covered by warranty.

THE TORO COMPANY IS NOT LIABLE FOR INDI-RECT OR CONSEQUENTIAL DAMAGES IN CON-NECTION WITH THE USE OF THE PRODUCT IN-CLUDING ANY COST OR EXPENSE OF PROVID-ING SUBSTITUTE EQUIPMENT OR SERVICE DUR-ING PERIODS OF MALFUNCTION OR NON-USE.

Some states do not allow the exclusion 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.

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 fall, you may contact us at The Toro Company.