

MODEL NO. 20677 - 9000001 thru 0000001 & UP OPERATOR'S MANUAL

21" (0.53 m) SP REAR BAGGER

KEY-LECTRIC START



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 the instruction 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 the 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.
- Keep all guards, shields, and safety devices in place. Repair or replace defective or damaged parts.
- 6. Engine, blade, and traction drive are designed to stop when control bar is released. Assure 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 and keep clear of discharge opening at all times.
- 11. When mulching, keep grass bag in place and assure chute door is closed. When bagging grass, stop engine and assure chute door is closed before the bag is removed and emptied.
- 12. Shut engine off and wait for all moving parts to stop before unclogging chute.
- 13. Since the blade rotates for a few seconds after the blade control is released, stay behind the handle until all moving parts stop.
- 14. 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.
- 15. Stop the engine before adjusting the height-of-cut.
- 16. Stop the blade when crossing a gravel driveway, road or sidewalk.
- 17. Stop engine before leaving the operator's position behind the handle. Disconnect wire from spark plug if mower will be unattended.
- 18. 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

19. Perform only those maintenance instructions described in this manual. If major repairs

A SAFETY INSTRUCTIONS

are ever needed or if assistance is desired, contact an Authorized TORO Service Dealer.

- 20. Before mower is cleaned, inspected, serviced or adjusted, stop engine and disconnect high tension wire from spark plug. Keep wire away from plug to prevent accidental starting.
- 21. 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).
- 22. To reduce fire hazard, keep engine free of excessive grease, grass, leaves, and accumulations of dirt.
- 23. Check grass catcher bag frequently for wear or deterioration. Replace with a new bag for your protection.

- 24. 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.
- 25. Do not overspeed the engine by changing governor settings.
- 26. At the time of manufacture the mower conformed 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

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.

HOINT ON

WELL STATE OF THE STA

ON ENGINE (Part No. 37-1580)



ON MOWER HOUSING (Part No. 39-5770)



ON CONTROL PANEL (Part No. 70-2650)

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SET-UP INSTRUCTIONS

INSTALL HANDLE, BAG, AND BATTERY

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

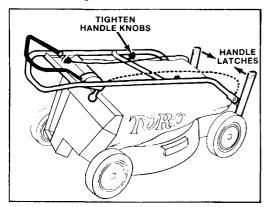


Figure 1

2. Pivot handle backward until handle stud snaps into center hole of handle latch (Fig. 2). Assure control cables are to the rear and inside of handles.

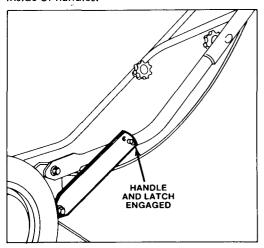


Figure 2

- 3. Install grass bag: refer to Using Grass Bag, page 6, steps 1-5.
- 4. Charge battery: refer to Charging Battery, page 11. Slide battery, decal side up, between mounting tabs on back of control panel and connect wires (Fig. 3). Insert key into switch when ready to start engine.

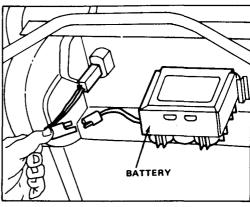


Figure 3

BEFORE OPERATING

FILL CRANKCASE WITH OIL

Initially, crankcase must be filled with 21 ounces (0.621 I) of SAE 30 or 10W30 oil. Use any high quality detergent oil having the American Petroleum Institute — API — "service classification" SF, SC, SD or SE.

Before each use, assure oil level is in SAFE range. Add oil if level is low.

CAUTION: Never run engine unless oil is between "FULL" and "ADD" marks on dipstick.

- 1. Position mower on level surface and clean around oil dipstick.
- 2. Remove dipstick by rotating cap counter-clockwise.
- 3. Wipe dipstick and insert it into filler neck. Rotate cap clockwise. Then remove dipstick and check level of oil (Fig. 4). If level is low, slowly 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 SLOWLY.
- 4. Insert dipstick into filler neck and rotate cap clockwise to lock.

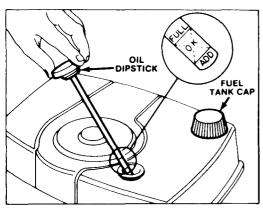


Figure 4

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 or at the end of each cutting season. More frequent oil changes are required in dusty or dirty conditions.

FILL FUEL TANK WITH GASOLINE

Note: The Toro Company strongly recommends the use of fresh, clean, UNLEADED 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.

- 1. Clean around fuel tank cap and remove cap from tank (Fig. 4). Using unleaded gasoline, fill fuel tank to within 1/2 inch (13 mm) from top of tank.
- 2. Install fuel tank cap and wipe up any spilled gasoline.

IMPORTANT: Do not mix oil with the gasoline. Never use methanol, gasoline containing methanol, gasohol containing more than 10% ethanol, premium gasoline, 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 PRESERVIT OR A SIMILAR PRODUCT). ADDITIVES SHOULD NOT BE USED TO TRY TO ENHANCE THE POWER OR PERFORMANCE OF MACHINE.



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 gasoline in an approved container and keep it out of the reach of children.

Refuel outdoors, only when engine is cold. Fill tank to within 1/2" (13 mm) from its top. This space is for expansion of fuel. Use funnel or spout to prevent spilling. Wipe up any spilled gas.

OPERATING INSTRUCTIONS

5-in-1 MOWING VERSATILITY

REAR BAG — Bag lush grass in the spring to help keep your lawn free of thatch forming clippings.

MULCH — In summer, when grass grows slower and is drier, mulch by closing chute door (Fig. 5). For convenience and protection, keep grass bag on mower.

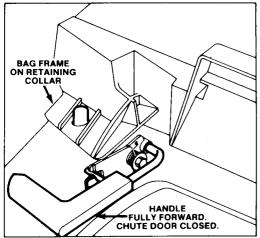


Figure 5

SIDE DISCHARGE — Disperse clippings with optional, rear-mounted side discharge chute which installs in seconds. Between the handle design lets you trim on both sides (Fig. 6).

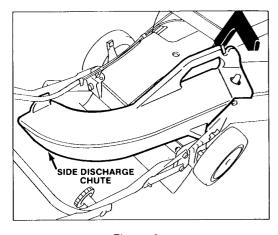


Figure 6

SHRED LEAVES — In fall, optional leaf shredder (Fig. 7) reduces leaves to a fraction of their original size while you bag. Minimizes emptying stops and number of trash bags used for disposal.

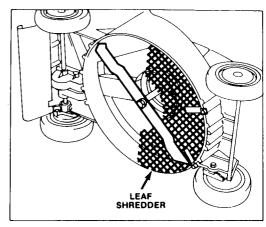


Figure 8

REMOVE THATCH — As spring tines on optional Toro Dethatcher scratch and vibrate through the grass, thatch is loosened and conveniently vacuumed into the bag (Fig. 8).

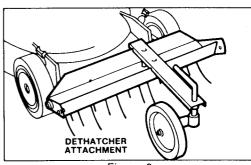


Figure 8

OPERATING TIPS

- 1. CHECK OIL LEVEL Maintain oil level between "ADD" and "FULL" marks as shown on dipstick.
- 2. BEFORE EACH MOWING Assure engine brake, self-propelled drive and control bar function properly. When control bar is released, engine, blade and self-propelled drive are designed to stop.
- 3. CUTTING AND BAGGING Best results are achieved when engine is running at maximum speed and only about 1/3 of the grass is cut. If long grass must be cut, use highest height-of-cut setting for first mowing. Then recut the grass at a more normal setting. If too long of grass is cut, mower may plug and cause engine to stall.
- 4. SHARP BLADE Begin each cutting season with a sharp blade. Periodically file down nicks.

OPERATING INSTRUCTIONS

STARTING, STOPPING, AND SELF-PROPELLING

- 1. CONTROLS Key switch, ground speed control, throttle, and control bar are on upper handle (Fig. 9).
- 2. Push wire onto spark plug (Fig. 13).

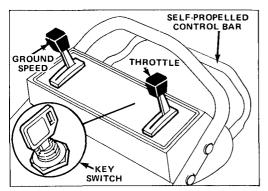


Figure 9

- 3. COLD START Before starting engine when temperature is below 50°F (10°C), push cold start primer 5 times (Fig. 13), pausing 2 seconds between each push.
- 4. KEY-LECTRIC Move ground speed control to "N" and throttle to FAST (Fig. 9). Lift control bar up to RUN position and hold (Fig. 10). Turn key (Fig. 9) to START and release when engine begins running. Regulate throttle as desired. If engine does not start after 3 seconds of continuous cranking, wait 10 minutes for carburetor prime well to refill.
- 5. TRACTION OPERATION Allow control bar to move into the RUN/SHIFT position. Move ground speed control to desired setting and squeeze control bar against handle to drive.

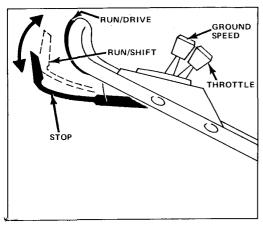


Figure 10

Ground speed varies, depending on space between control bar and handle (Fig. 10).

6. STOPPING — To stop engine, release control bar. Pull wire off spark plug if mower is unattended or not used.

USING GRASS BAG

Keep bag installed when bagging or mulching.

- 1. Stop engine and wait for all parts to stop.
- 2. Assure chute door handle is fully forward and pin is engaged in catch (Fig. 5).
- 3. INSTALLING BAG Slide hole in bag frame onto retaining collar on housing (Fig. 11) and set rear of bag frame onto lower handle.
- 4. Pull chute door handle forward until pin clears catch and move handle rearward until pin locks in bag notch (Fig. 11). Chute door in mower housing is now open. It may be necessary

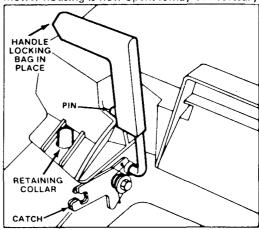


Figure 11



CAUTION

Except when side discharge attachment is used, never open chute door on mower when engine is running unless grass bag is properly installed, because grass clippings and other debris discharges with enough force to cause injury.

The grass bag material will catch and contain the majority of 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 similar warning.

OPERATING INSTRUCTIONS

to push down on top of right of bag door to release handle locking pin from catch.

- 5. EMPTYING BAG Release control bar and wait for blade to stop. Move chute door handle forward to engage the locking pin with catch (Fig. 5). Grasp handle at front and rear of bag and lift bag off mower. Gradually tip bag forward to empty clippings.
- 6. To reinstall bag, repeat steps 4 and 5.

CAUTION: If chute door cannot be closed because grass clippings clog discharge area, gently move chute door handle back and forth until door can be closed completely. Do not force chute door closed because door or handle may be damaged. If door still cannot be closed, make sure engine is stopped and remove obstruction.

ADJUSTING HEIGHT-OF-CUT

Five letters cast into the housing represent each graduated increment (Fig. 12).

- 1. Stop the engine.
- 2. For easier adjustment, lift housing up so

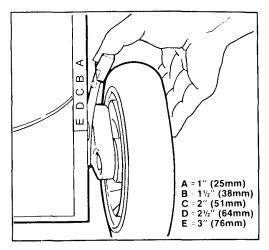


Figure 12

wheel is off ground. Squeeze adjusting lever toward wheel and move them to desired setting (Fig. 12). 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 hole in housing.



CAUTION

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. 13).
- 2. Lift off air cleaner cover and clean cover thoroughly (Fig. 13).
- 3. If top of foam element is dirty, remove it from air cleaner body (Fig. 13). Clean thoroughly.

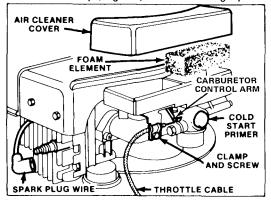


Figure 13

- 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 with 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 30 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 a Champion CJ-8 spark plug or equivalent. Correct air gap is 0.0300" (0.762 mm). Remove plug after every 25 operating hours and check its condition.

1. Stop engine and pull wire off spark plug (Fig. 13).

2. Clean around spark plug and remove plug from cylinder head (Fig. 13).

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 0.0300" (0.762 mm) (Fig. 14). Install correctly gapped spark plug and gasket seal. Tighten plug firmly to 15 ft-lb (20.4 N-m).

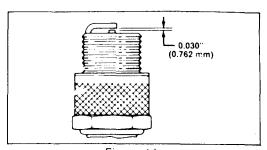


Figure 14

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 the spark plug.
- 2. Move throttle control to SLOW.
- 3. Loosen cable clamp screw until throttle cable slides (Fig. 13). Move carburetor control arm as far to the left as possible. Pull throttle cable slightly to remove any slack and tighten cable clamp screw to lock adjustment in place.

DRAINING GASOLINE

1. Stop engine. Pull wire off spark plug.

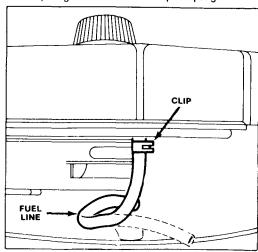


Figure 15

- 2. Squeeze ends of fuel line clip (Fig. 15) and slide clip down fuel line. Carefully pull fuel line off fitting and allow gasoline to flow into drain pan (Fig. 15).
- 3. After tank is drained, install fuel line on fuel tank fitting and secure in place with the clip.

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 oil, run engine for a minute or so before draining oil.

- 1. Stop engine and pull wire off spark plug.
- 2. Drain gasoline from fuel tank: refer to Draining Gasoline, page 8.
- 3. Tip mower on its left side (Fig. 19).
- 4. Clean area around drain plug. Using 1/2 inch open end wrench, remove drain plug (Fig. 16). Gradually tip mower back to its normal position.
- 5. After oil is drained, install oil drain plug and tighten it securely. Tip mower back to its normal position.

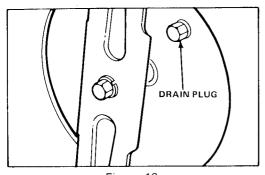


Figure 16

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. Close door in mower housing and remove bag.
- 2. ADJUSTMENT (Fig. 17) Rotate control knob clockwise 1/2 turn if mower does not self-propel. If mower creeps forward, rotate knob 1/2 turn counterclockwise to loosen belt.
- 3. CHECK ADJUSTMENT Mower will begin to self-propel when control bar is about 1-inch from handle (Fig. 18).

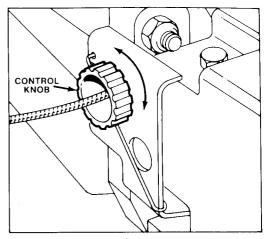


Figure 17

4. Repeat steps 2 and 3 until properly adjusted.

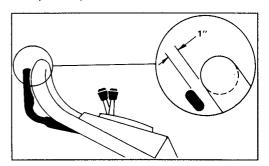


Figure 18

INSPECTING/REMOVING/SHARPENING BLADE

- 1. Stop engine and pull wire off spark plug.
- 2. Drain gasoline from fuel tank: refer to Draining Gasoline, page 8.

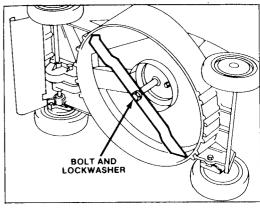


Figure 19

- 3. Tip mower on its left side (Fig. 19). Avoid rotating blade. Starting problems may result.
- 4. INSPECTING BLADE Carefully examine blade for sharpness and wear, especially where flat and curved parts meet (Fig. 20A).

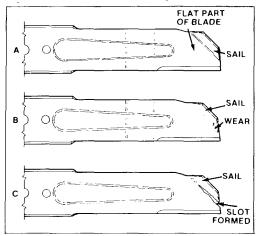


Figure 20



CAUTION

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.

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. 20B & C), replace blade, Refer to step 5.

5. REMOVING BLADE — Grasp end of blade using a rag or thickly padded glove. Remove lockwasher, blade bolt, and blade (Fig. 19).

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

6. SHARPENING BLADE — Using a file, sharpen top side of blade and maintain original cutting angle (Fig. 21). The blade will remain balanced if 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 purchased at a hardware store. A balanced blade will stay in horizontal position and an unbalanced blade will settle to the heavy

side. If blade is not balanced, file more metal off cutting edge on heavy end of blade.

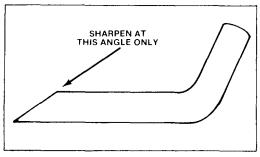


Figure 21

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

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 and outside of 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. 22). Install grease gun onto fitting and gently apply 2 or 3 pumps of #2 Multi-Purpose Lithium Base Grease. Excess pressure may damage seals.

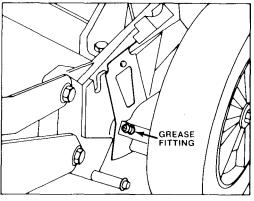


Figure 22

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.
- 2. CHECK ADJUSTMENT (Fig. 23) Move control bar toward handle until slack in wire is removed. Gap between brake lever and handle

must be 1/8"-3/16". See step 3 for adjustment.

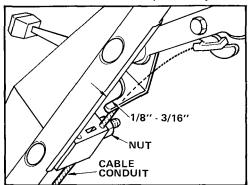


Figure 23

3. ADJUST CABLE CONDUIT — Loosen nut on cable bracket (Fig. 23). Insert 1/8"-3/16" object between brake lever and handle. Pull down on cable conduit until all slack is removed from wire. Then tighten nut.

ADJUSTING GROUND SPEED CONTROL FOR NEUTRAL

Whenever a new ground speed control cable is installed or if mower drives when ground speed control is in "N", an adjustment is required.

- 1. Stop engine and remove grass bag.
- 2. Remove two cap screws and lift off transmission cover (Fig. 24).

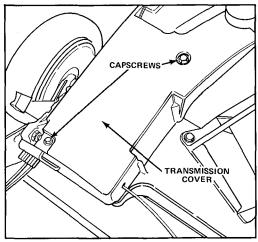


Figure 24

- 3. ADJUSTMENT (Fig. 25) Loosen cable clamp screw until cable conduit slides. Push transmission control lever toward cable clamp screw and hold lever in place. Pull cable to remove slack and tighten clamp screw.
- 4. CHECK ADJUSTMENT Assure ground speed control is in "N" and pull mower back-

ward: Pulley (Fig. 25) should not rotate. If pulley does rotate, readjust for neutral: refer to step 3.

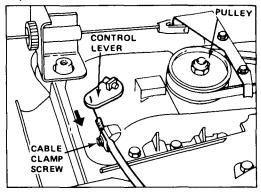


Figure 25

5. Reinstall transmission cover and grass bag.

CLEANING MOWER HOUSING

To assure optimum performance, keep underside of mower housing and inside of discharge area clean.

- 1. Drain gasoline from fuel tank: refer to Draining Gasoline, page 8.
- 2. Tip mower on its left side (Fig. 26). Avoid rotating blade because starting problems may result.
- 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.

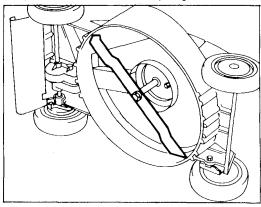


Figure 26

CHARGING BATTERY

Although a new battery is not fully charged, a partial charge of 4 hours will provide enough energy for several starts. However, a new battery must be charged for 72 continuous hours to assure full charge. Also charge battery for 72 hours when mower is stored and in the spring.

During normal operation, engine alternator keeps battery charged.

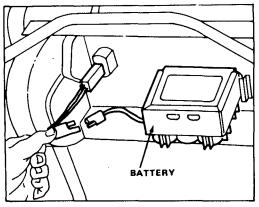


Figure 27

- 1. Stop engine and disconnect wire harness from battery terminal (Fig. 27).
- 2. If desired, battery can be removed by sliding it out of mounting slots. However, removal is not required if mower can be positioned near an electrical outlet.
- 3. Connect TORO electro charger to battery and plug into 120 VAC power outlet. After charging battery for specified time, unplug charger and disconnect from battery.
- 4. Connect wiring harness to battery terminal.

IMPORTANT: Only the Toro electro charger is recommended because other chargers could damage the battery. Always use charger indoors and charge battery at room temperature (+70°F) whenever possible. Do not charge battery longer than 72 hours because damage could result.

PREPARING MOWER FOR STORAGE

1. Drain gasoline: refer to Draining Gasoline, page 8. Then start engine and let it idle until all

fuel is consumed and engine stops. If gasoline is not drained, gum-like varnish deposits will form and cause poor engine operation, even starting problems.

- 2. Drain oil: refer to Changing Crankcase Oil, page 9. After oil is drained, do not fill crankcase with oil until the following steps (3-9) 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 HIGH TENSION WIRE ON SPARK PLUG.
- 4. Clean underside of housing: refer to Cleaning Mower Housing, page 11.
- 5. Check condition of blade: refer to Inspecting/Removing/Sharpening Blade, page 9.
- 6. Tighten all nuts, bolts, and screws.
- 7. 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.
- 8. Clean air cleaner: refer to Servicing Air Cleaner, page 8.
- 9. Lubricate the wheels: refer to Lubrication, page 10.
- 10. Touch up all rusted or chipped paint surfaces. Toro Re-Kote paint is available from an Authorized TORO Service Dealer.
- 11. Fill crankcase with oil: refer to Fill Crankcase With Oil, page 4.
- 12. Charge battery for 72 hours: refer to Charging Battery, page 11.
- 13. Store mower in a clean dry place. Cover mower to keep it clean and protected.

OPTIONAL SPARK ARRESTOR

If a spark arrestor is required because of local, state or federal regulations, it may be purchased at your local Authorized Tecumseh 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. Order the following parts:

Muffler-Spark Arrestor

Part No. 391020

1 — Deflector

-- Part No. 34422

1 — Screw

- Part No. 650643

PRODUCT IDENTIFICATION

A model number 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 replacement parts are needed.

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.

MAINTENANCE RECORD

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Date	Hours Used	Oil Change	Air Cleaner Service	Lubrication	Spark Plug	Winter Storage
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MAINTENANCE RECORD

Date	Hours Used	Oil Change	Air Cleaner Service	Lubrication	Spark Plug	Winter Storage
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TROUBLESHOOTING

Problem	Possible Causes	Corrective Action
Engine does not	Throttle not in FAST position.	Move throttle to FAST.
start.	2. Gas tank is empty.	2. Fill fuel tank with gasoline.
	3. Air cleaner element is dirty.	3. Clean air cleaner element.
	4. Spark plug is loose.	4. Tighten spark plug to proper specification.
	Spark plug wire is loose or disconnected from spark plug.	5. Install spark plug wire on spark plug.
	Spark plug gap is incorrect.	6. Set air gap to proper specification.
	7. Spark plug is defective.	7. Install new, correctly gapped plug.
Engine starts hard or loses power.	Dirt, water or stale gas in fuel tank.	Drain gas and clean fuel tank. Fill tank with clean, fresh gasoline.
	2. Vent hole in fuel tank cap is plugged.	2. Clean or replace fuel tank cap.
	3. Air cleaner is dirty.	3. Clean the air cleaner element.
Engine operates	Spark plug is defective.	Install new, correctly gapped plug.
erratically.	Spark plug gapped incorrectly.	Set air gap to proper specification.
	3. Air cleaner is dirty.	Clean the air cleaner element.
Engine idles poorly.	Air cleaner is dirty.	Clean the air cleaner element.
3 , ,	2. Oil level in crankcase is low.	Add oil to crankcase.
	Air slots in engine shroud are plugged.	Remove obstruction from slots.
	Cooling fins and air passages under engine blower housing are plugged.	Remove obstruction from cooling fins and air passages.
Engine skips at high speed.	Air gap between electrodes of spark plug is too close.	Set air gap to proper specification.
Engine overheats.	Cooling air flow is restricted.	Remove any obstruction from slots in shroud, blower housing, air passages, and cooling fins on engine.
	2. Oil level in crankcase is low.	2. Add oil to crankcase.
	3. Incorrect spark plug.	3. Install new, correctly gapped plug.
	Note: A Toro Service Dealer may have to be consulted if any of the above causes have occurred.	
Mower vibrates	1. Blade bolt is loose.	Tighten blade bolt to proper specification.
abnormally.	Cutter blade is unbalanced.	Sharpen cutter blade and check the balance. Replace the blade if it cannot be balanced.
No traction drive.	Ground speed control adjusted incorrectly or broken.	Adjust ground speed control or replace control
	2. Transmission drive belt loose or broken.	2. Adjust belt tension or replace belt.
	Traction Control Handle cable incorrectly adjusted or broken.	3. Adjust or replace cable.
	4. Damaged wheel and pinion gear assembly.	4. Repair as necessary.
	5. Malfunction in transmission assembly.	5. Repair as necessary.
	Note: A Toro Service Dealer may have to be consulted if items 2-5 have occurred.	
Mower creeps forward—traction control handle disengaged.	Debris caught between mower housing and transmission. (Belt under tension.) Traction belt over-tensioned, i.e., belt not loose enough when disengaged.	Remove transmission cover and clear debris away. Reduce belt tension.

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 The costs 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 is defective and wish to Some states do not allow limitations on how long rely on The Toro Promise, the following procedure implied warranty lasts, so the above limitation may not apply to you. 1. Contact any Authorized TORO Service Dealer, This Warranty applies only to parts or components TORO Master Service Dealer, or TORO Distributor which are defective and does not cover repairs (the Yellow Pages of your telephone directory is necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine maintenance of the unit to keep it in proper 2. He will either instruct you to return the product operating condition is the responsibility of the owner. to him or recommend another Authorized TORO Service outlet which might be more convenient. All warranty repairs reimbursable under The Toro Promise must be performed by an Authorized TORO 3. Bring the product along with your original sales Service Dealer using Toro approved replacement slip, or other evidence of purchase date, to the Repairs or attempted repairs by anyone other than 4. The servicing dealer will inspect the unit, advise an Authorized TORO Service Account are not you whether the product is defective and, if so, reimbursable under The Toro Promise. In addition, make all repairs necessary to correct the defect these unauthorized repair attempts may result in without extra charge to you. additional malfunctions, the correction of which is If for any reason you are dissatisfied with the dealer's not covered by warranty. analysis of the defect or the service performed, you THE TORO COMPANY IS NOT LIABLE FOR IN-DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT INCLUDING ANY COST OR

may contact us. Write: TORO Customer Service Department 8111 Lyndale Avenue South

is recommended:

service dealer.

a good reference source).

Minneapolis, Minnesota 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. ALL IMPLIED WARRANTIES OF MERCHANT-ABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

EXPENSE OF PROVIDING SUBSTITUTE EQUIP-MENT OR SERVICE DURING PERIODS OF MAL-**FUNCTION 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

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 quarantee 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.

Compliance with Radio Interference Regulations Certified. Certifie Conforme au Reglement sur le Brouillage Radioelectrique,