FORM NO. 3320-561

TORO®

MODEL NO. 26680-0000001 & UP
MODEL NO. 26680WG-0000001 & UP

OPERATOR'S MANUAL

21" (0.53 m) REAR BAGGER

⚠ SAFETY INSTRUCTIONS

ENGLISH

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.

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

WHILE OPERATING

6. Do not run engine indoors.

7. 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 good artificial light.

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

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

10. When mulching, assure discharge door is closed. When bagging grass, stop engine before the bag is removed and emptied.

11. Shut engine off and wait for all moving parts to stop before unclogging chute.

12. Since the blade rotates for a few seconds after the engine is stopped, stay behind the handle until all moving parts stop.

13. 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.

14. Stop the engine before adjusting the height-of-cut.

15. Stop the engine before crossing a gravel driveway, road or sidewalk.

16. Stop engine before leaving the operator's position – behind the handle. Disconnect high tension wire from spark plug if mower will be unattended.

17. Do not touch muffler or engine while it is running or shortly after it is stopped because muffler or engine will be hot enough to cause a burn.

MAINTENANCE

18. Perform only those maintenance instructions described in this manual. If major repairs are ever needed or if assistance is desired, contact an Authorized TORO Service Dealer.

19. 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.

20. To assure the mower is in safe operating condition, frequently check and keep all nuts, bolts and screws tight. Assure blade nuts are tightened to 25-33 ft-lb. (34-45 N-m).

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

22. Check grass catcher bag frequently for wear or deterioration. Replace with a new bag for your protection.

23. 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.

24. Do not overspeed the engine by changing governor settings.

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SAFETY INSTRUCTIONS

25. 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.

SYMBOL GLOSSARY



Safety alert



Keep hands and feet away from rotating blade



Place foot here when starting



Keep hands away



Keep all guards in place



Engine start



Choke on



Keep bystanders from area being mowed



Never open chute door on mower when engine is running, unless grass bag or side discharge attachment is installed



Neutral



Stop engine before leaving operator position



Slow



Fast



Ignition on



Ignition off



Traction drive - ENGAGED



Traction drive - DISENGAGED



Read and understand operator's manual



Engine speed (Throttle)

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SET-UP INSTRUCTIONS

INSTALL HANDLE AND BAG

1. Spread handle ends and slide onto mower housing mounting studs (Fig. 1).

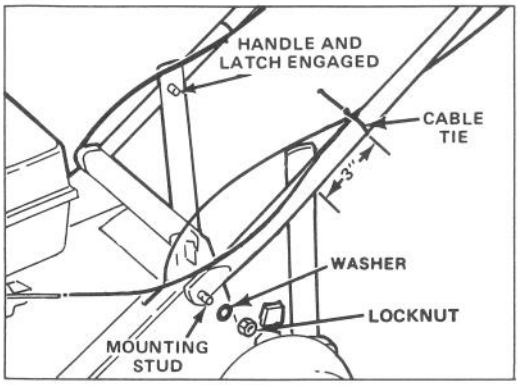


Figure 1

2. Secure each side of handle to mounting studs with a washer and locknut (Fig. 1).

3. Spring handle latches inward, move handle up or down to snap handle studs into middle hole on both latches (Fig. 1).

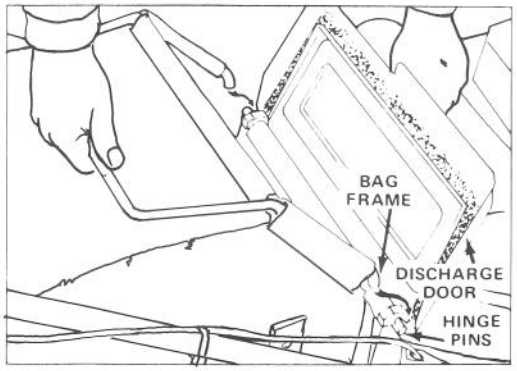


Figure 2

4. Handle height may be adjusted to desired position by moving handle studs to one of the other holes in handle latches.

5. Secure control cables to each side of handle approximately 3" above handle stud (Fig. 1).

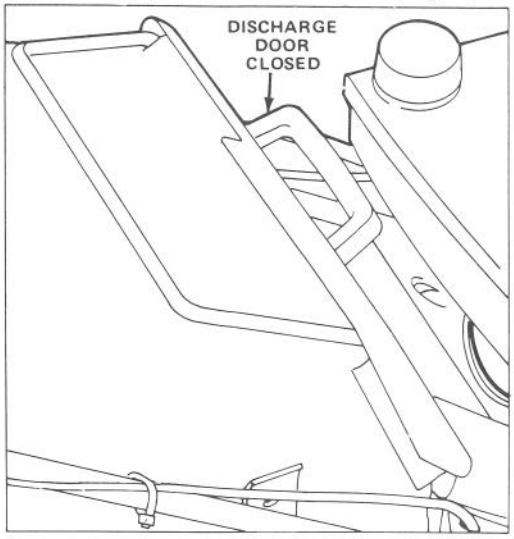


Figure 3

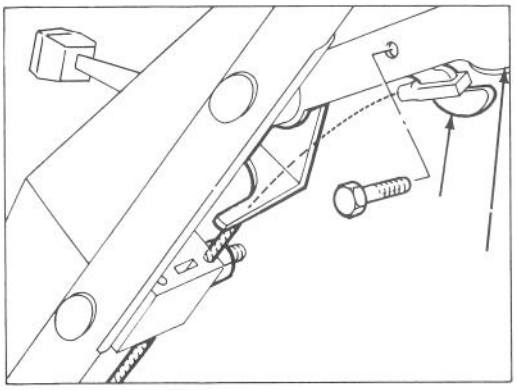


Figure 4

SET-UP INSTRUCTIONS

6. To install grass bag, raise discharge door and hook bag frame onto hinge pins (Fig. 2). Allow bag to rest on mower housing over discharge opening. Close door and make sure it seals around top of bag opening (Fig. 3).

7. Secure control lever to control bar with a capscrew and locknut as shown in fig. 4.

BEFORE OPERATING

⚠ 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 1/4" to 1/2" (6 to 13 mm) from its top. 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 optimum performance, use Toro two-cycle oil available from your Toro dealer. A BIA TC-W approved two-cycle oil from a reputable oil company may be substituted. NEVER USE 4-CYCLE AUTOMOTIVE OILS SUCH AS SAE 30 or 10W30.

2. GASOLINE – THE TORO COMPANY STRONGLY RECOMMENDS THE USE OF CLEAN, FRESH **UNLEADED** REGULAR 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.

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

3. MIXING – In an approved gasoline container, thoroughly mix prescribed amount of gasoline and two-cycle oil (refer to Fuel Mixing Chart). DO NOT MIX FUEL IN MOWER FUEL TANK. FOR BETTER MIXING, OIL SHOULD BE AT ROOM TEMPERATURE.

4. Fill mower fuel tank to within 1/4" to 1/2" (6 to 13mm) from top of tank, not the filler neck. Install fuel tank cap securely.

50:1
Fuel Mixing Chart

Unit of Measure	Gasoline	Oil
U.S. Gallon	1 gallon	2.6 oz
Imperial Gallon	1 gallon	3 oz
Liter	1 liter	20 ml

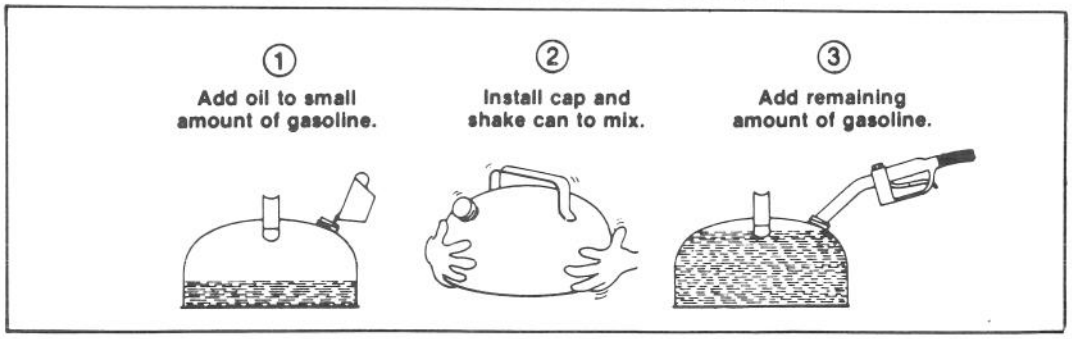


Figure 5

OPERATING INSTRUCTIONS

4-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 removing the grass bag and closing the discharge door (Fig. 6).

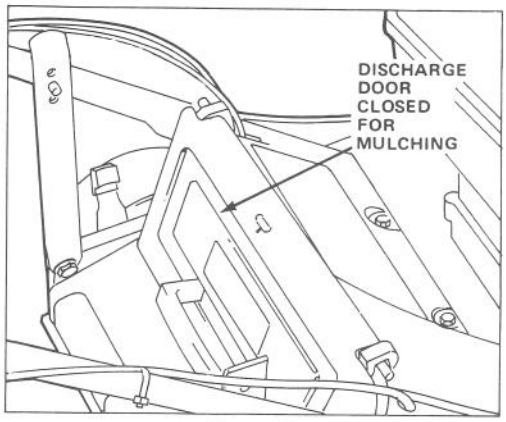


Figure 6

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. 7).

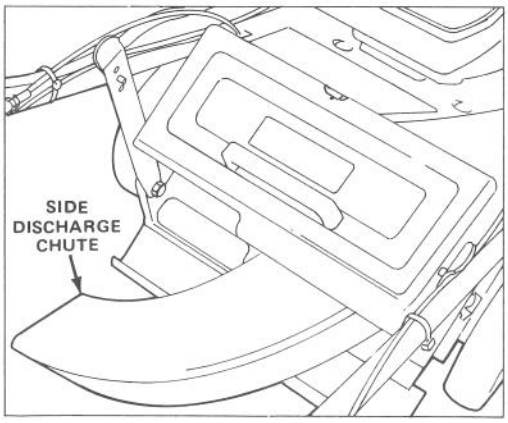


Figure 7

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).

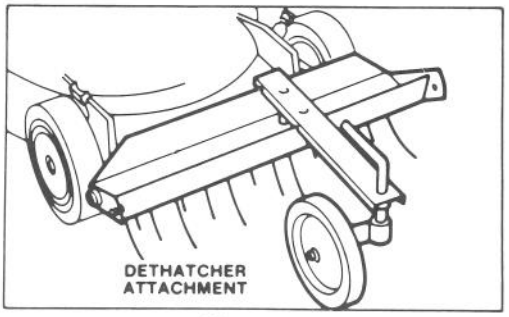


Figure 8

OPERATING TIPS

1. BEFORE EACH MOWING – Assure self-propelled drive and control bar function properly. When control bar is released, self-propelled drive is designed to stop.

2. CUTTING AND BAGGING – Best results are achieved when engine is running at maximum speed and only about 1/3 of the grass blade 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.

When cutting in dry, dusty conditions move the throttle to a slower speed to reduce the amount of dust generated by mower.

3. SHARP BLADE – Begin each cutting season with a sharp blade. Periodically file down nicks.

STARTING, STOPPING AND SELF-PROPELLING

1. CONTROLS – Throttle, ground speed control and self-propelled control bar are on upper handle (Fig. 9). Fingertip starter is on top of engine.

2. Push high tension wire onto spark plug (Fig. 13) and on self-propelled models move ground speed control to "N" (Fig. 9).

3. FINGERTIP STARTING – Move throttle to CHOKE. Cover hole in center of primer (Fig. 13) with thumb and push once. Pull engine mounted fingertip starter and regulate throttle as desired when engine starts.

Note: Choke and primer are usually not necessary when warm engine is being started.

OPERATING INSTRUCTIONS

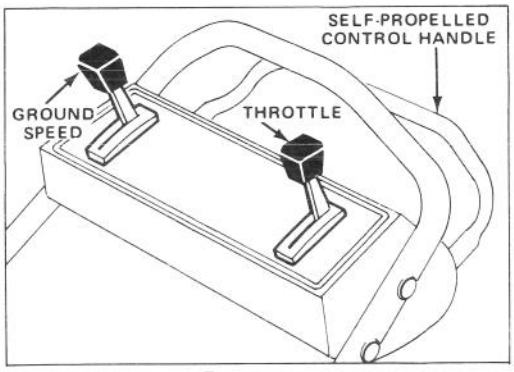


Figure 9

4. TRACTION OPERATION (Self-propelled model) – Move ground speed control to desired setting and squeeze control bar against handle to drive. Ground speed varies, depending on space between control bar and handle (Fig. 10).

NOTE: The drive wheels are equipped with freewheeling clutches which enable the mower to be pulled rearward easier when the wheel drive is disengaged. To disengage the clutches, mower must be pushed forward at least 1" after wheel drive operation has stopped.

5. STOPPING (Fig. 9) – Release control bar to stop traction drive. Move ground speed control to "N" on self-propelled models. To stop engine, move throttle to OFF. Pull wire off spark plug if mower is unattended or not used.

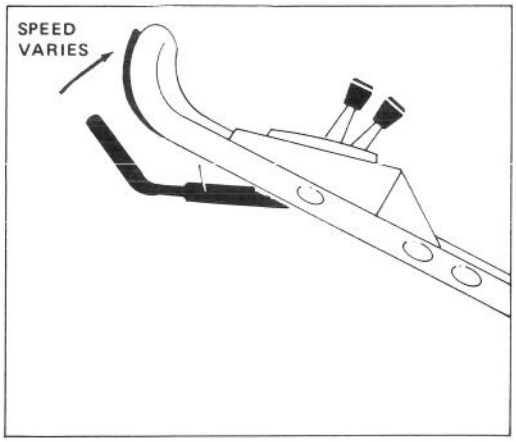


Figure 10

USING GRASS BAG

Keep bag installed when bagging or mulching.

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

2. INSTALLING BAG – Raise discharge door and hook bag frame onto hinge pins (Fig. 11). Allow bag to rest on mower housing over discharge opening. Close door and make sure it seals around top of bag opening.

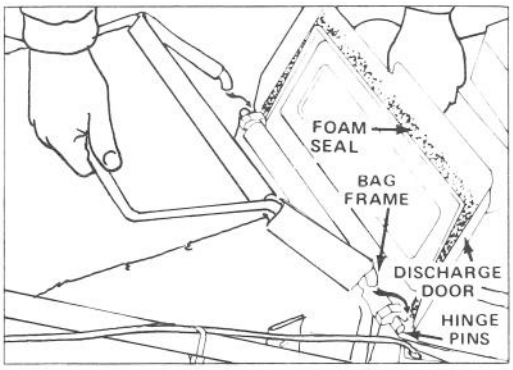


Figure 11

3. CHECKING BAG – To see if grass bag is full, release control bar and wait for blade to stop. Open discharge door to see how full bag is.

4. REMOVING BAG – Stop engine and wait for all moving parts to stop. For protection, always keep hands and feet away from mower housing when engine is running. Open discharge door. While holding discharge door, grasp handle on grass bag and lift bag off mower. Allow discharge door to close.

⚠ WARNING

Never open chute door on mower when engine is running 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.

5. EMPTYING BAG – Grasp bag frame handle and rear of bag. Gradually raise rear of bag while shaking bag to empty.

NOTE: If grass bag is overfilled, some clippings may remain in discharge opening when bag is removed. Normally, these clippings will be blown

OPERATING INSTRUCTIONS

into grass bag when the bag is reinstalled and the blade is engaged. If the discharge opening remains plugged, be sure to stop engine and wait for all moving parts to stop, before attempting to clear any clippings from the mower.

ADJUSTING HEIGHT-OF-CUT

Three numbers cast into the housing represent the height-of-cut setting. The diamond between each number represents ½" increments.

1. Stop the engine.

2. For easier adjustment, lift housing up so 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 "1" and release pin into notch in housing.

3. In conditions when maximum power is required or when cutting in spongy thatch causing rear wheels to sink in turf, raise rear wheel setting one increment higher. Make sure wheel settings are returned to equal settings, when cutting in normal conditions, to assure the best quality of cut is achieved.

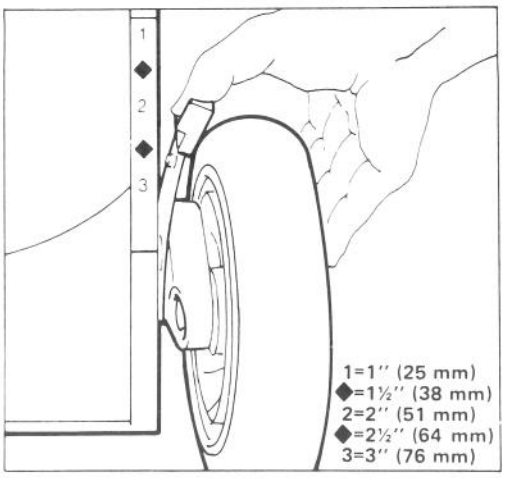


Figure 12

MAINTENANCE

⚠ 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).

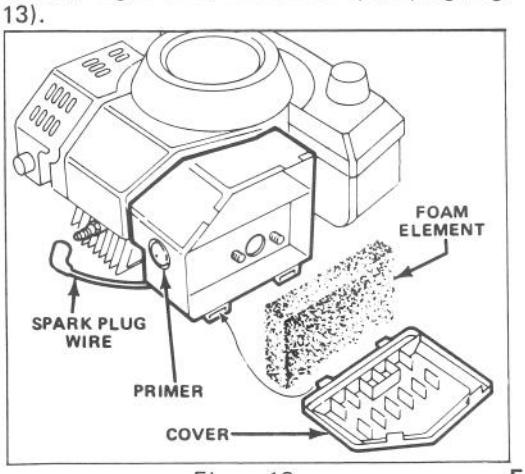


Figure 13

2. Lift tabs at top of air cleaner cover and pivot cover down. Clean cover thoroughly (Fig. 13).

3. If outside of foam element is dirty, remove it from air cleaner body (Fig. 13). 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 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 an NGK BPMR4A spark plug or equivalent. Correct air gap is 0.032" (0.813 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.

MAINTENANCE

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 st 0.032" (0.813 mm) (Fig. 14). Install correctly gapped spark plug and gasket seal. Tighten plug firmly to 10 ft-lb (13.6 N-m).

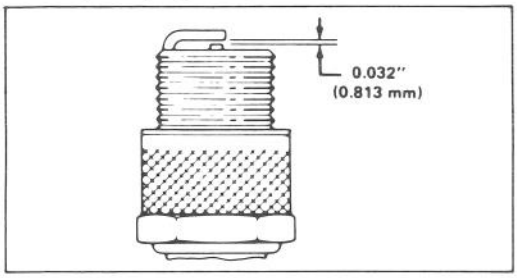


Figure 14

DRAINING GASOLINE

1. Stop engine and pull wire off spark plug (Fig. 13).
2. Remove cap from fuel tank and use pump-type 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, the throttle must be adjusted.

1. Stop engine and pull wire off spark plug (Fig. 13).
2. Move throttle control to FAST position.
3. Loosen cable clamp screw until throttle cable slides (Fig. 15).
4. Align holes in throttle lever and throttle bracket. Tighten cable clamp screw to lock adjustment in place.

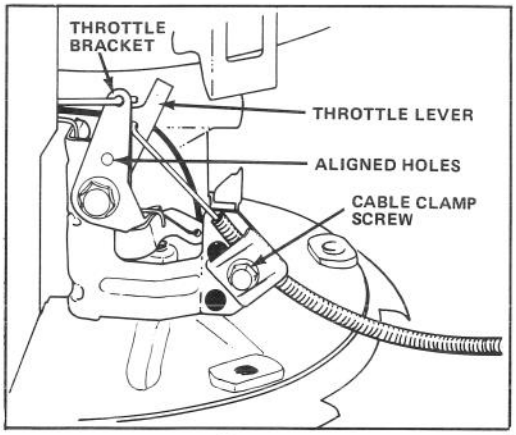


Figure 15

ADJUSTING WHEEL DRIVE

If mower does not self-propel or has a tendency to creep forward when drive is not engaged, an adjustment to the wheel traction control cable is necessary.

1. Stop engine and pull wire off spark plug (Fig. 13).
2. Loosen bottom jam nut on wheel traction cable (Fig. 16).

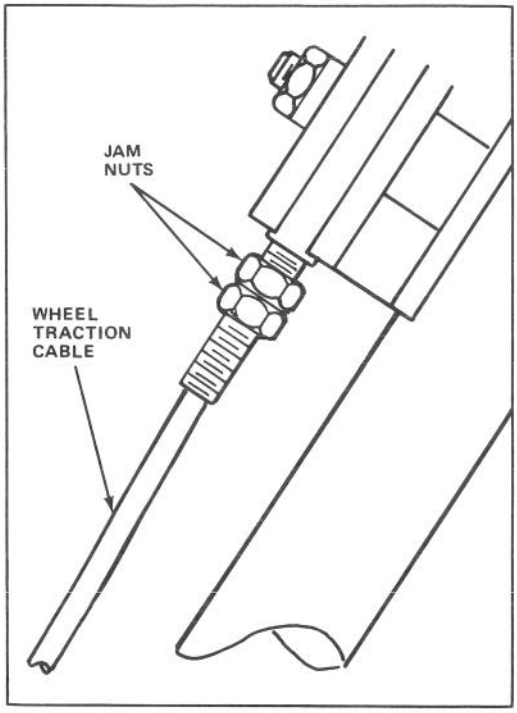


Figure 16

3. Lift control bar until some resistance is felt. Control bar should be 1½" from handle when properly adjusted (Fig. 17).
4. Move the top jam nut up to increase the clearance between the control bar and handle. Move top jam nut down to decrease the clearance between the control bar and the handle.

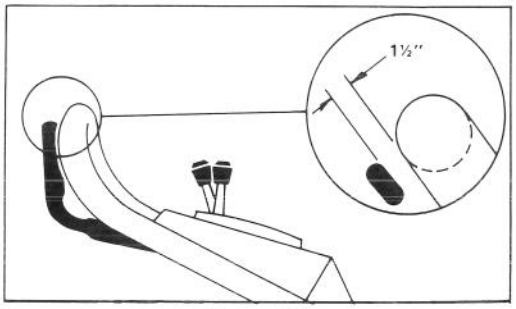


Figure 17

5. Repeat steps 3 and 4 until properly adjusted.

6. Tighten bottom jam nut to lock the adjustment.

INSPECTING/REMOVING/SHARPENING BLADE

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

2. Drain gasoline from fuel tank: refer to Draining Gasoline, page 8.

3. Tip mower on its right side. 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. 18A). 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

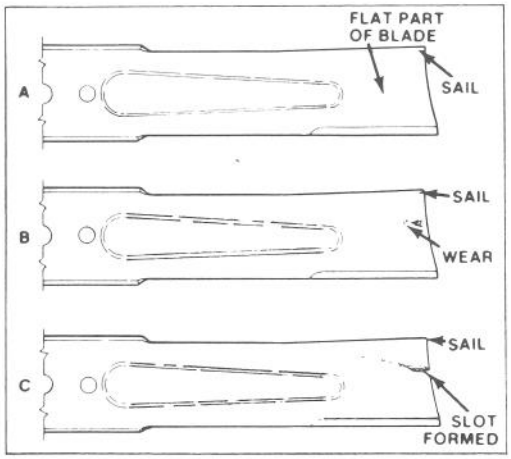


Figure 18

slot or wear is noticed (Fig. 18B & C), replace blade. Refer to step 5.

5. REMOVING BLADE – Grasp end of blade using a rag or thickly padded glove. Remove blade bolt, lockwasher, blade and blade retainer (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.

⚠ 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.

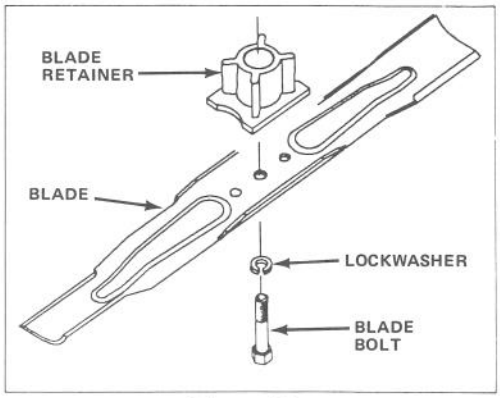


Figure 19

6. SHARPENING BLADE – Using a file, sharpen top side of blade and maintain original cutting angle (Fig. 20). 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.

7. Install blade retainer and sharp balanced blade with lockwasher and bolt. Sail part of blade must point toward top of mower housing to assure correct position. Tighten the blade nuts to 25-33 ft-lb (35-45 N-m).

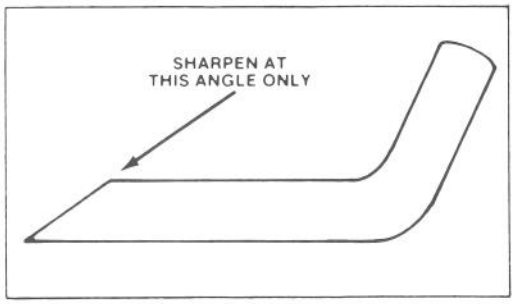


Figure 20

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 all wheel bolts. Spin wheels to distribute oil into bushings. Wipe up excess oil.

2. Move rear wheel height-of-cut levers to "2" setting. Wipe grease fittings with clean rag (Fig. 21). Install grease gun onto fitting and gently

apply 2 or 3 pumps of #2 Multi-Purpose Lithium Base Grease.

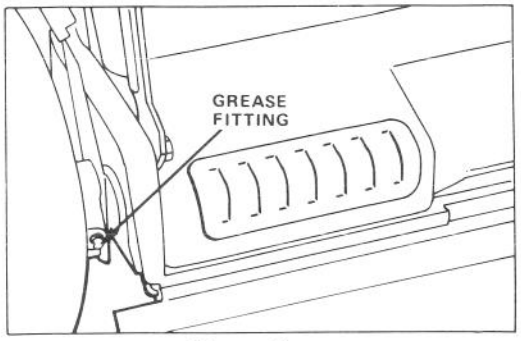


Figure 21

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 right side (Fig. 22). 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.

4. Clean discharge door and hinges of grass or debris that may impair operation of door. Use caution when cleaning door so you do not damage foam seal.

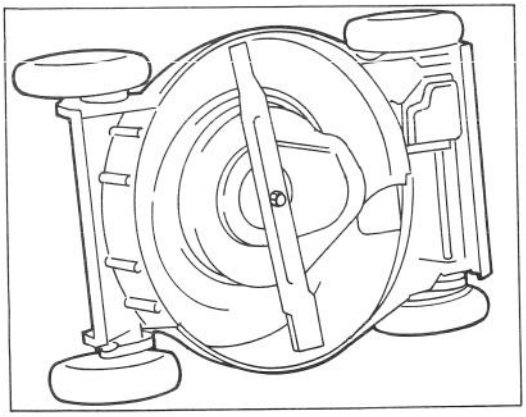


Figure 22

5. Remove access cover on mower housing and clean around gear box. (Fig. 23).

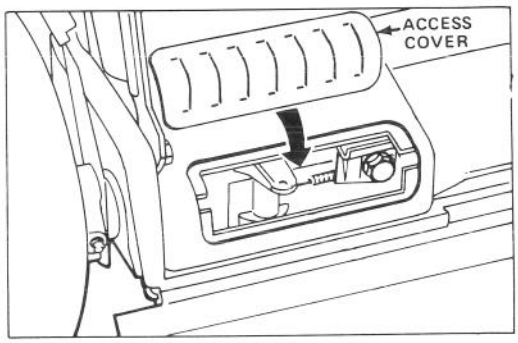


Figure 23

PREPARING MOWER FOR STORAGE

1. Drain gasoline: refer to Draining Gasoline, page 8. If gasoline is not drained, gum-like varnish deposits will form and cause poor engine operation, even starting problems.

2. Remove spark plug and pour 2 teaspoons of Toro two-cycle oil into hole in cylinder. Pull starter rope slowly to coat inside of cylinder. Install spark plug and tighten to 10 ft-lb (13.6 N-m). DO NOT INSTALL WIRE ON SPARK PLUG.

3. Clean underside of housing: refer to Cleaning Mower Housing.

4. Check condition of blade: refer to Inspecting/Removing/Sharpening Blade.

5. Tighten all nuts, bolts and screws.

6. 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.

8. Lubricate the wheels: refer to Lubrication.

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 cleaned and protected.

OPTIONAL SPARK ARRESTOR — PART #81-0200

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.

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 and 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

Date	Hours Used						

MAINTENANCE RECORD

Date	Hours Used					

MAINTENANCE RECORD

Date	Hours Used					


TORO