CANADA FORM NO. 3320-218

TORO®

MODEL NO. 20810-0000001 & UP

OPERATOR'S MANUAL

21" (0.533 m) REAR BAGGER

FINGERTIP START, SELF-PROPELLED

To assure maximum safety, optimum performance, and to gain knowledge of the mower, it is essential that you or any other operator of the mower read and understand the contents of this manual before the engine is started. Pay particular attention to the instructions highlighted by this safety symbol. Failure to comply with the safety instructions may result in personal injury.



PRICE $1.00

FOREWORD

The Rear Bagger, the most innovative walk power mower, provides a new degree of mowing efficiency and convenience. If the mower is set up, operated and maintained properly, it will give long, dependable service.

To familiarize yourself with safety, set-up, operating and maintenance instructions, read this manual thoroughly. The major sections of this manual are:

1. Safety Instructions
2. Set-up Instructions
3. Before Operating
4. Controls
5. Operating Instructions
6. Maintenance

Safety, mechanical, and some general information in this manual is emphasized. DANGER, WARNING, and CAUTION identify the safety messages. Whenever the safety symbol appears, it is followed by a safety message; therefore, refer to the safety instructions on pages 3 and 4 for complete details. IMPORTANT identifies special mechanical information and NOTE identifies general information worthy of special attention.

If help – concerning safety, set-up, operation and maintenance – 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 other TORO Products, as well as factory approved accessories and replacement parts. Keep your Toro all TORO. Buy genuine TORO replacement parts and accessories.

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SAFETY INSTRUCTIONS

Improper use or maintenance by the operator or owner of the mower can still result in injury. To reduce the potential for any injury, comply with the following safety instructions.

BEFORE OPERATING

1. Operate the mower only after reading this manual. A replacement manual is available by sending complete model and serial number to: The Toro Company, 8111 Lyndale Avenue South, Minneapolis, Minnesota 55420; Attn: Publications.

2. Never allow children to operate the mower or adults to operate it without proper instructions.

3. Become familiar with the controls and know how to stop the engine quickly.

4. Keep everyone, especially children and pets, away from the area of operation. Remove sticks, stones, wire and any other debris that might be picked up and thrown by the blade.

5. Keep all shields and safety devices in place. Before operating mower, check it for damage and abnormal wear. If a shield, safety device or decal is defective or damaged, repair or replace it before operation is commenced.

6. Wear long pants and substantial shoes. Do not operate mower while wearing sandals, tennis shoes, sneakers or shorts. Do not wear loose fitting clothing that could get caught in moving parts.

7. If long grass will be cut, set height-of-cut in highest position. After mowing, reinspect the area and remove all debris. Then lower the height-of-cut and mow grass again.

8. Gasoline is highly flammable; handle it carefully.

   A. Use an approved gasoline container.

   B. Do not fill fuel tank when engine is hot or running.

   C. Do not smoke while handling gasoline.

   D. Fill fuel tank outdoors and up to about one-half inch from the top of the tank, not the filler neck.

   E. Wipe up any spilled gasoline.

WHILE OPERATING

9. Cutting grass with a rotary mower demands attention. Always maintain secure footing, balance and control.

10. Cut grass during the daytime or when there is adequate artificial light. Cut grass slopes from side to side. Avoid slopes when grass is wet. If possible, mow when grass is dry for best results.

11. Keep face, hands and feet away from the mower housing and cutter blade when the engine is running. Stay behind the handle until the engine stops.

12. When operating mower without the bag, the chute door must be closed. Whenever grass is being bagged, the engine must be shut off and the chute door closed before the bag is removed and emptied.

13. If the discharge opening is clogged, shut engine off and wait for all moving parts to stop. Disconnect high tension wire from the spark plug and clear the obstruction with a stick.

14. Since the blade rotates for a few seconds after **throttle control is moved to OFF, stay behind the** handle until all moving parts stop.

15. If a solid object is hit by the blade or if mower vibrates abnormally, shut engine off immediately and wait for all moving parts to stop. Disconnect high tension wire from spark plug and keep wire away from plug to prevent possibility of accidental starting. Check mower for possible damage, bent blade, an obstruction, or loose part(s). Make all repairs before using the mower.

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

17. If a gravel driveway, road or side walk must be crossed, stop the engine so loose sand and rocks are not thrown.

18. Before leaving the operator's position – behind the handle – stop the engine and wait for all moving parts to stop. Disconnect high tension wire from spark plug if mower will be unattended.

19. Do not touch any part of the engine while it is running or shortly after it has been stopped because the engine will be hot enough to cause a burn.

20. Before the mower is serviced or adjusted, stop the engine and disconnect high tension wire from spark plug. Keep the wire away from the plug to prevent the possibility of accidental starting.

MAINTENANCE

21. To assure the mower is in safe operating condition, frequently check, and keep all nuts, bolts

SAFETY INSTRUCTIONS

and screws tight. Assure blade bolt is tightened to 50 ft-lb (68 N·m) and engine mounting bolts are tightened to 16 ft-lb (22 N·m).

22. 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.

23. If mower must be tipped when it is serviced or adjusted, drain gasoline from the fuel tank.

24. If a guard, safety device or safety decal is damaged, replace the defective part(s) before operating the mower.

25. To reduce potential fire hazards, assure mower is free of excessive grease, grass, leaves and accumulations of dirt.

26. The grass bag must always be in good condition; therefore, check it before each use to assure the bag is not torn or deteriorated. Replace a defective grass bag.

27. Allow engine to cool before storing mower in any enclosure such as a garage or storage shed. Do not store mower near any open flame or where gasoline fumes may be ignited by a spark.

28. Do not overspeed the engine by changing governor settings. Recommended speed of the engine is 2650 rpm. To assure safety and accuracy, have an Authorized TORO Service Dealer check engine speed, 2650 rpm, with a tachometer.

29. 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.

DANGER

STOP ENGINE BEFORE:
LEAVING OPERATOR POSITION.
HANDLING GRASS CATCHER.
CLEARING CHUTE.
CHANGING HEIGHT OF CUT.

BE CAREFUL:
KEEP BYSTANDERS FROM AREA BEING MOWED.
KEEP ALL GUARDS IN PLACE.
REMOVE ALL DEBRIS FROM AREA.
KEEP HANDS & FEET AWAY FROM MOVING PARTS.

READ & UNDERSTAND OPERATOR'S MANUAL BEFORE OPERATING THIS MACHINE. FREE REPLACEMENT MANUAL AVAILABLE BY SENDING MODEL & SERIAL NUMBER TO:

ARRÊTEZ LE MOTEUR AVANT DE:
QUITTER VOTRE POSITION.
MANIPULER LE SAC À HERBE.
DÉBLOQUER L'ÉJECTEUR.
CHANGER LA HAUTEUR DE COUPE.

SOYEZ PRUDENT:
TENEZ TOUTES PERSONNES À L'ÉCART DU LIEU DE TRAVAIL.
GARDEZ TOUS LES PROTECTEURS EN PLACE.
ENLEVEZ TOUS LES DÉBRIS.
TENEZ VOS MAINS ET VOS PIEDS LOIN DES PIÈCES MOBILES.

LISEZ ET COMPRENEZ LES INSTRUCTIONS DANS LE MANUEL AVANT D'UTILISER CETTE MACHINE. POUR OBTENIR UN MANUEL DE REMPLACEMENT GRATUIT, ENVOYEZ LE Nº DE MODÈLE ET LE Nº DE SÉRIE À:

THE TORO CO., 8111 LYNDALE AVE., MINNEAPOLIS, MINN. 55420

CAUTION
DO NOT OPERATE UNLESS BAG IS IN PLACE OR REAR DOOR IS CLOSED.



SWING DOOR BACK AND FORTH TO CLOSE.

ATTENTION
NE PAS UTILISER LA TONDEUSE A MOINS QUE LE SAC A HERBE NE SOIT EN PLACE OU LA PORTE ARRIERE FERMEE.



FAIRE OSCILLER LA PORTE D'AVANT EN ARRIERE POUR LA FERMER.

☑ SEE OWNER'S MANUAL FOR COMPLETE INSTRUCTIONS.

ENGINE OIL Use SAE 10W40 oil, class MS, SC, SD or SE only. With engine level, fill crankcase to full mark on dipstick. Change oil after first 2 hours and every 25 hours. Check oil level every 5 hours.

SPARK PLUG GAP—.030 in.

AIR CLEANER Clean and re-oil foam element every 25 hours—more often under dusty conditions. Wash in detergent and water. Dry thoroughly and re-oil. Squeeze foam to distribute oil evenly.

☑ VOIR LE MANUEL D'ENTRETIEN POUR DES INSTRUCTIONS COMPLÈTES.

HUILE À MOTEUR N'utiliser que de l'huile à moteur SAE 10W40, classification MS, SC, SD ou SE. S'assurer que le moteur est de niveau, et remplir le carter jusqu'à la marque de plein sur la jauge. Changer l'huile après les 2 premières heures d'utilisation et toutes les 25 heures par la suite. Vérifier le niveau d'huile toutes les 5 heures.

ÉCARTEMENT DES ÉLECTRODES DE LA BOUGIE—.030 po.

FILTRE À AIR Nettoyer et huiler l'élément mousse toutes les 25 heures—plus souvent lorsqu'il est utilisé en atmosphère poussiéreuse. Laver avec de l'eau et du detergent, sécher soigneusement, huiler, puis presser l'élément mousse pour répartir l'huile uniformément.

SPECIFICATIONS

10 Cubic Inch (164 cc) Tecumseh Engine: Model TNT 100, type 10063C is used. Four cycle, air cooled engine has output of 4.5 ft-lb (6.10 N·m) of torque @ 2650 rpm. Fuel tank capacity is 1.3 quarts (1.23 l) and crankcase capacity is 21-oz (0.621 l). Air cleaner is removable, serviceable polyurethane type. The Rear Bagger has an easy-pull fingertip starter.

Mower Housing: Die cast aluminum alloy housing with rear bagging feature. Width-of-cut is 21 inches (0.533 m).

Cutter Blade: Blade is 21 inches (0.533 m) long and heat treated for hardness.

Blade Tip Speed: Tip speed is 14,570 ft/min (74.01 m/sec) @ 2650 engine rpm.

Folding Handles: Two handles are 7/8 inch (22.33 mm) diameter, 16 gauge (1.65 mm) welded steel tubing with chrome plating. Handle is adjustable to one of three operating positions. Upper handle can be folded for compact storage.

Throttle Control: Control is mounted on left side of handle. Hand operated control connects to and operates the carburetor and has four positions: OFF, I, II, and III.

Ground Speed Control: Control is mounted on right side of upper handle. Hand operated control connects to and operates sliding drive keys which individually engage each gear in the transmission, thereby transmitting drive force to the rear axle. Ground speed control has four selections; NEUTRAL (N), FIRST (<), SECOND (<<) and THIRD (<<<).

Traction Control Handle: Operator demand handle at top of upper handle. Normally at rest in disengaged position. Rotates in forward direction to rotate transmission and tighten drive belt.

Traction Drive: Rear wheel drive with 3L section V-belt that connects engine output shaft to transmission. Transmission rotates to tighten and loosen belt for clutching function.

Rear Drive Wheel Assembly: 8" (20.3 cm) wheels with spur gear reduction; 42 tooth gear on wheels driven by a 15 tooth pinion. Over-running clutches at each pinion to provide differential action for turns.

Engine to Transmission Reduction: Reduction is 1.14:1.

Rear Wheel Reduction: Wheel reduction is 2.80:1.

Transmission Gear Reduction:

Low – 2.5:1 and 3.0:1 = 7.5:1 reduction
Medium – 2.5:1 and 2.5:1 = 6.25:1 reduction
High – 2.5:1 and 2.1:1 = 5.25:1 reduction

Ground Speed: at 2650 engine rpm, ground speed is:

Low – 2.6 mph (4.18 Km/h)
Medium – 3.1 mph (4.98 Km/h)
High – 3.7 mph (5.95 Km/h)

Wheels: Stamped steel wheels with two ball bearings and grease fitting.

Tires: Front and rear tires are 8" x 1.75" (20.3 cm x 44.5 mm) semi-pneumatic, diamond tread type.

Height-of-Cut: Height-of-cut is adjustable to one of five approximate settings: 1 inch (25 mm); 1-1/2 inches (38 mm); 2 inches (51 mm); 2-1/2 inches (64 mm); and 3 inches (76 mm). A 1/2 inch (12.7 mm) setting is available on front wheels only.

Dimensions:

Overall width is 21-3/4 inches (0.553 m) (approx).

Overall length without handle is 30-1/8 inches (0.765 m) (approx).

Height without handle and wheels set at 1 inch (25 mm) is 14 inches (0.356 m) (approx).

Weight: Dry weight of mower, including bagging attachment is approximately 78 lb (347 N).

LOOSE PARTS

Carefully remove mower and other parts from carton. Use chart below to assure all parts have been shipped.

PART	QTY	WHERE USED
Bag	1	Assemble to mower.
Operator's Manual	1	Read manual before operating mower.
Registration Card	1	Fill out card and send it to The Toro Company.

SET-UP INSTRUCTIONS

INSTALL HANDLE

1. Open top of box, loosen handle knobs, lift upper handle and remove carton liner assemblies.

2. Cut box end open at front of mower and roll mower out of box.

3. Lift upper handle, remove bag and align upper handle with lower handle (Fig. 1). Insure control cables are not damaged.



Figure 1

1. Upper handle
2. Bag assembly
3. Knob
4. Lower handle

4. In turn, loosen and remove each knob and curved head handle bolt. Assure control cables are to rear and inside of handles (Fig. 2). Align handle latch hole with holes in upper and lower handle and install handle bolt and knob with knobs on the outside of handle (Fig. 2). Insure handle bolts are in same location on each latch.

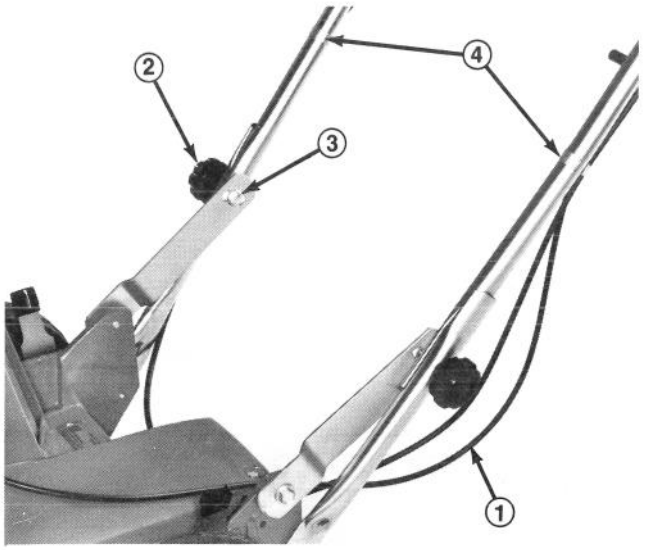


Figure 2

1. Control cables at rear & inside handles
2. Knob
3. Curved head handle bolt
4. Cable clips

Note: Handle height is adjustable for operator comfort. Stand behind mower to gauge height. Loosen each knob and push curved head handle bolt inward to clear notches in latch. Move latch forward or rearward to achieve desired height setting.

ASSEMBLE BAG TO MOWER

1. Assure chute door handle is fully forward and locked in place (Fig. 3).

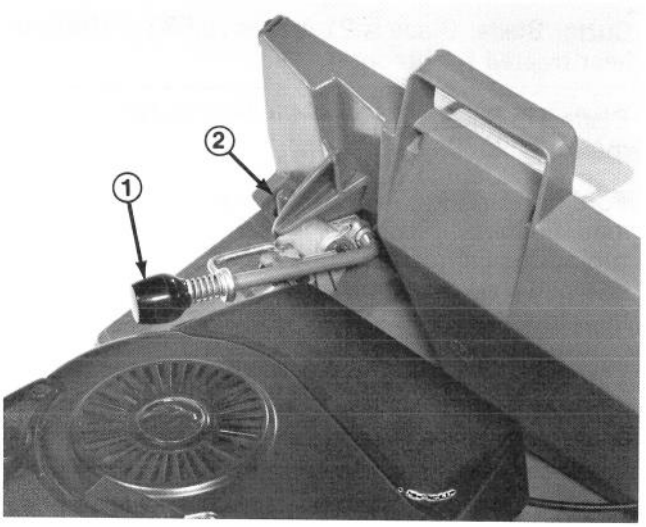


Figure 3

1. Chute door handle fully forward
2. Locating stud

2. Slide guide hole in bag door onto locating stud on mower housing (Fig. 3); then set rear of bag frame onto handle pins.

3. Squeeze lockout lever until it clears the housing latch (Fig. 4). Then move handle rearward until lockout lever locks in notch at rear of housing latch (Fig. 4). The chute door in mower housing is now open and mower is ready to bag grass clippings.

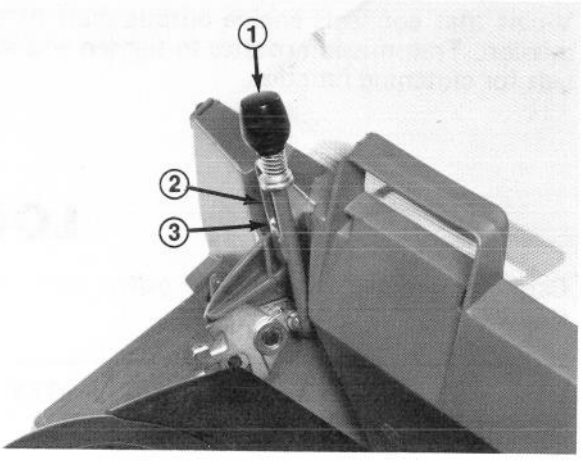


Figure 4

1. Chute door handle
2. Lockout lever
3. Notch

BEFORE OPERATING

FILL CRANKCASE WITH OIL

The engine does not have oil in the crankcase when it is shipped from the factory. If engine is started before oil is added to the crankcase, engine damage could result. Therefore, before engine is started for the first time:

1. Position mower on level surface.

2. Clean area around the oil dipstick to prevent foreign matter from entering the filler hole when dipstick is removed.

3. Remove dipstick by rotating cap counterclockwise 1/4 turn (Fig. 5).

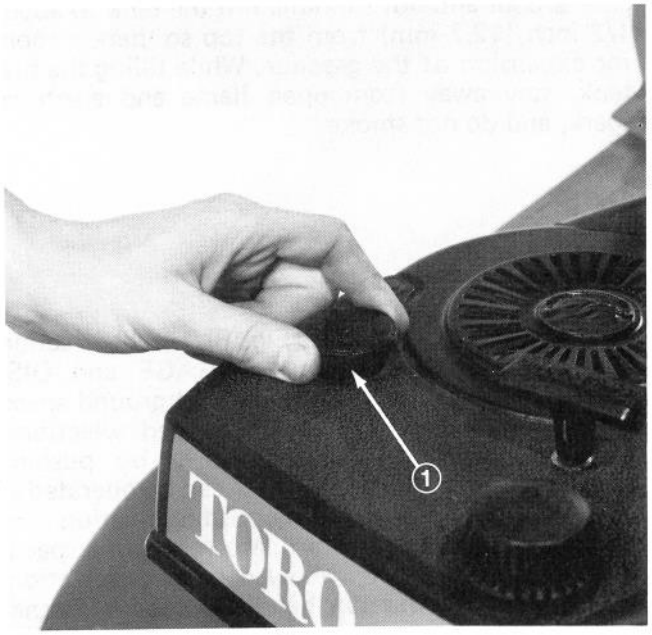


Figure 5

1. Dipstick location

4. Slowly pour approximately 21 ounces (0.621 l) of oil into the filler neck. The engine uses any high quality detergent oil having the American Petroleum Institute – API – "service classification" MS, SC, SD or SE. The recommended oil to use is: SAE 10W-30 or 10W-40.

5. Wipe end of dipstick with clean rag and insert it into filler neck. Rotate cap clockwise 1/4 turn. Then remove the dipstick and check level of oil by reading the dipstick (Fig. 6). If level of oil is low, add only enough oil to raise level to FULL mark on dipstick. DO NOT ADD OIL SO LEVEL RISES ABOVE FULL MARK BECAUSE ENGINE COULD BE DAMAGED WHEN IT IS STARTED.

6. Insert dipstick into filler neck and rotate cap clockwise 1/4 turn to lock.

Note: Check level of oil after every 5 operating hours or each time the mower is used. Initially, change oil after the first 2 hours of operation; thereafter, when conditions are normal, change oil after every 25 hours of operation. However, change oil more frequently when mower is operated in dusty or dirty conditions.

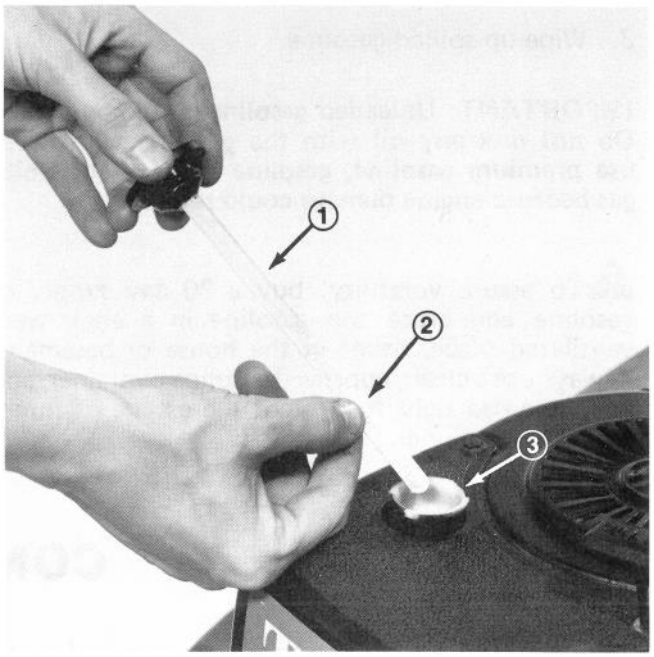


Figure 6

1. Dipstick
2. Read dipstick here
3. Filler neck

FILL FUEL TANK WITH GASOLINE

1. Clean area around fuel tank cap and remove cap from tank (Fig. 7).



Figure 7

1. Fuel tank cap removed

BEFORE OPERATING

2. Fill fuel tank to within 1/2 inch (12.7 mm) from top of the tank with unleaded gasoline. Install fuel tank cap securely.

Note: If unleaded gasoline is not available, leaded-regular gasoline can be used.

3. Wipe up spilled gasoline.

IMPORTANT: Unleaded gasoline is recommended. Do not mix any oil with the gasoline, and never use premium gasoline, gasoline additives or white gas because engine damage could result.

⚠ To assure volatility, buy a 30 day supply of gasoline and store the gasoline in a cool, well-ventilated place; never in the house or basement. Always use a clean, approved gasoline container, and keep the cap tight to prevent the escape of fumes from the container.

⚠ **CAUTION**

Gasoline is a highly flammable fuel for internal combusion engines, and it is not recommended for any other use. Always handle it carefully. Since many children like the smell of gasoline, keep it out of their reach because the fumes are explosive and dangerous to inhale.

Fill fuel tank outside, use a clean funnel or spout to prevent spilling, and wipe up any gasoline that does happen to spill. Fill fuel tank only while engine is cool and not running. Fill the tank to about 1/2 inch (12.7 mm) from the top so there is room for expansion of the gasoline. While filling the fuel tank, stay away from open flame and electrical spark, and do not smoke.

CONTROLS

Throttle Control – The throttle control (Fig. 8) has four positions: OFF, I, II and III. Move control to III to start engine. Move control between I and III to operate engine at various speeds. To stop engine, move throttle control to OFF.

Ground Speed Control (Fig. 8) – The ground speed control has four positions: NEUTRAL (N), FIRST (<), SECOND (<<) and THIRD (<<<). Positioning lever in different speed settings changes ground speeds of mower.



Figure 8

1. *Throttle Control*
2. *Ground Speed Control*
3. *Traction Control Handle*

Traction Control Handle (Fig. 8) – The traction control has two positions: ENGAGE and DISENGAGE. With engine running and ground speed control in one of the ground speed selections, traction operation is accomplished by pushing traction control forward. Mower can be operated at variable speed in any gear by pushing traction control handle partially forward. Mower ground speed, dependent upon speed allowed by gear selection, will increase as traction handle is pushed further forward. Mower traction operation is stopped by pulling traction control handle rearward allowing it to return to its DISENGAGE position.

Recoil Starter (Fig. 9) – Pull fingertip starter to start the engine.

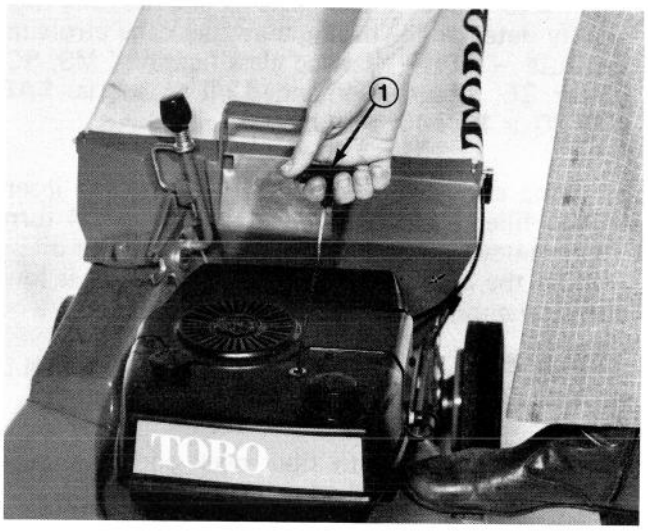


Figure 9

1. *Recoil starter*

CONTROLS

Height-of-Cut Adjusters (Fig. 10) – Height-of-cut is adjustable to one of five approximate settings: 1 inch (25 mm), 1-1/2 inches (38 mm), 2 inches 51 mm), 2-1/2 inches (64 mm), 2-1/2 inches (64 mm), or 3 inches (76 mm). In addition, front wheels have a 1/2 inch (12.7 mm) setting that can be used with the 1 inch (25 mm) rear wheel setting. When cutting thatch or heavy, thick grass, raise rear wheel one setting above the front wheel setting to assure optimum power to the blade.

OPERATING INSTRUCTIONS

ADJUST HEIGHT-OF-CUT

The height-of-cut is adjustable from approximately 1 to 3 inches (25 mm to 76 mm), in 1/2 (12.7 mm) increments, and letters cast into the housing represent each graduated increment (Fig. 10).

A = 1 Inch (25 mm)
B = 1-1/2 Inches (38 mm)
C = 2 Inches (51 mm)
D = 2-1/2 Inches (64 mm)
E = 3 Inches (76 mm)

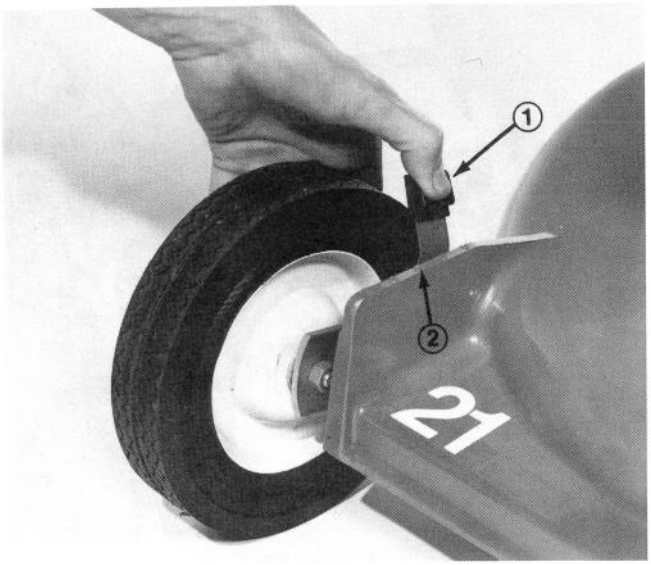


Figure 10

1. Height-of-Cut adjuster
2. Height selection guide letters

1. ⚠ Assure engine is not running before adjusting height-of-cut because contact with the blade will cause personal injury.

2. Place thumb against height-of-cut adjuster and fingers on outside of wheel (Fig. 10).

3. Raise mower housing until wheel is off the ground. Squeeze height-of-cut adjuster toward wheel so its locating pin disengages notch in mower housing. Then pivot the wheel and adjuster to the desired height-of-cut and release adjuster so locating

4. To front wheels, rotate height-of-cut adjuster rearward past "A" until pin engages hole in housing.

STARTING/STOPPING THE ENGINE

1. Assure high tension wire is pushed onto spark plug.

2. Move throttle control forward to III position (Fig. 11)

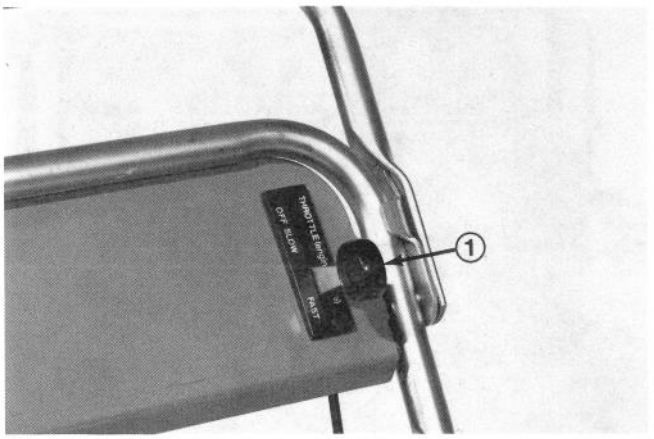


Figure 11

1. Position throttle control in III

3. Place foot on step at left side of mower housing (Fig. 12) and keep other foot from beneath the housing. Pull fingertip starter handle up gently until positive engagement results, and pull handle



Figure 12

1. Recoil starter

OPERATING INSTRUCTIONS

quickly to start the engine. Regulate throttle as desired. Since the carburetor has a prime well that supplies an extra-rich charge of gasoline for starting the engine, wait about 10 seconds after pulling the starter handle two or three times. If 10 seconds does not elapse between attempted starts, the prime well will not refill and the engine may not start. Also, there is a primer bulb to assist starting in colder - below 50° F. (10° C.) temperature. Below 50° F., (10° C.) push primer once (Fig. 13) and continue normal starting procedures. Do not pull starter rope to its limit or let go of the handle when rope is pulled out because starter mechanism or rope may break.

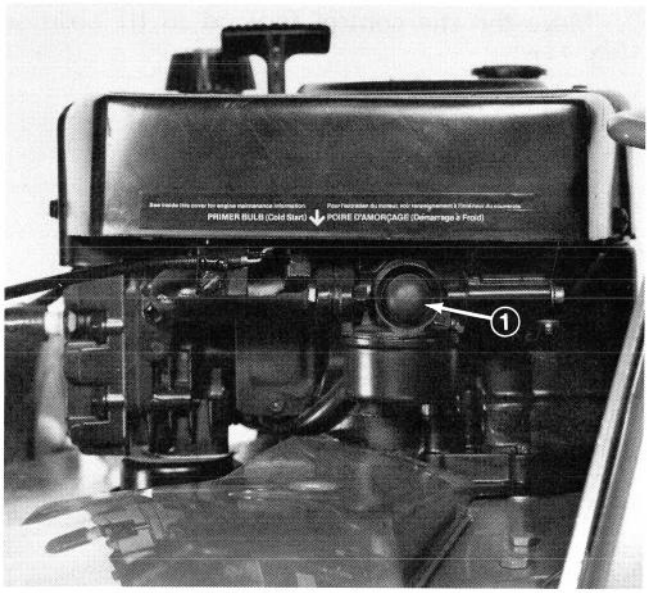


Figure 13

1. Primer-operate for cold starting-below 50°F. (10°C.)

4. To stop engine, move throttle control to OFF position (Fig. 14).



Figure 14

1. Throttle control in stop position

5. Pull high tension wire off spark plug to prevent possibility of accidental starting when mower is unattended or not used.

TRACTION SYSTEM OPERATION

Operate the Rear Bagger traction control system in the following manner:

1. Assure ground speed control is in NEUTRAL (N) position, traction control is DISENGAGED and start engine; refer to Starting/Stopping The Engine, page 9.

2. Stand behind the handle in the operating position and shift the ground speed control lever to the desired ground speed selection (Fig. 15).



Figure 15

1. Ground Speed Control

3. Move the traction control handle forward to achieve traction operation (Fig. 16). Mower can be operated at variable speed in any gear by pushing traction control handle partially forward (Fig. 17). Mower ground speed, dependent upon speed allowed by gear selection, will increase as traction handle is pushed further forward. To stop traction operation, move the traction control handle rearward to the DISENGAGE position. To move mower in reverse direction, pull back on the traction control handle.

4. If operating on rough turf areas, shift the ground speed control lever to a lower setting (Fig. 17) and operate the traction control at the full forward position (Fig. 17). This will lower the ground speed allowing the mower to follow ground contours, preventing excessive mower bouncing and providing a more acceptable turf appearance.

OPERATING INSTRUCTIONS



Figure 16

1. Traction Control
2. Move handle forward to achieve traction

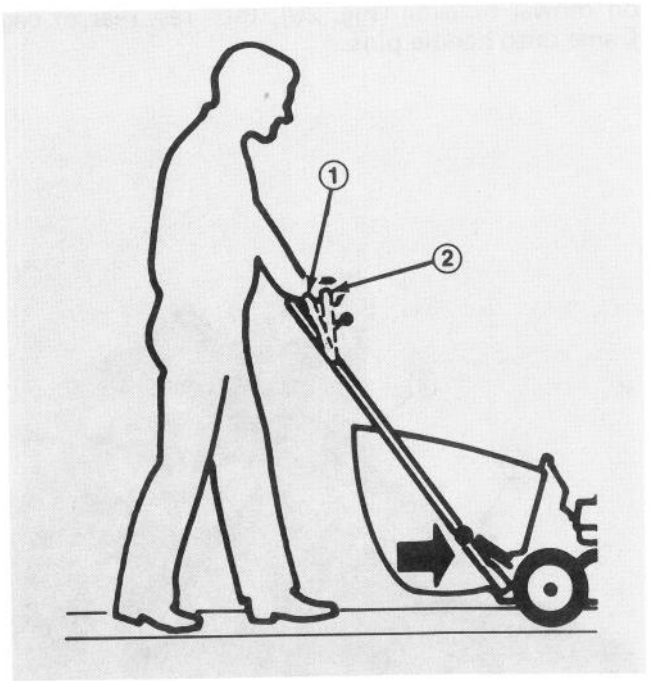


Figure 17

1. Variable ground speeds
2. Full ground speed

5. Always shift the ground speed control lever to NEUTRAL (N), when operations are completed, to avoid accidental traction operation when the engine is restarted.

6. If mower has a tendency to creep (move forward) when traction control handle is in DISENGAGE position, drive belt is too tight. If there is slow or no ground speed, even though ground speed control handle is in one of the gear selections and traction control handle is pushed fully forward, drive belt is too loose.

If either of the above two conditions have occurred, return the mower to an Authorized Toro Service Dealer for traction control cable adjustment.

OPERATING CHARACTERISTICS AND TIPS

The Rear Bagger has a 10 cubic inch (164 cc) engine that delivers the blade turning force necessary to produce a good quality of cut.

The mower can be used with or without the grass bag: refer to Bagging, page 12 and Mowing Without the Bag, page 13. Bagging can be accomplished by opening the chute door in the mower housing when bag is installed or mowing without the bag by closing the door.

To use the mower for bagging grass, install the bag, open the chute door in mower housing and start the engine. Notice that the grass bag expands at the sides and top. This expansion by the bag is caused by the air currents, generated by the blade, flowing through the bag. As grass is cut and discharged into the 2-1/2 bushel (0.088 m^3) bag, the air currents through the bag decrease gradually as it is being filled. While the bag is expanded, grass can be cut. Stop the engine and empty the bag when expansion of the bag has discontinued.

The mower is equipped with a rear shield (Fig. 18), which helps protect from objects that might be thrown rearward and from possible contact with the blade. Because of its flexible design, maneuverability of the mower is unaffected. Never remove the rear shield because it is a safety device, designed for your protection. If the shield is ever damaged, replace it before operating the mower.

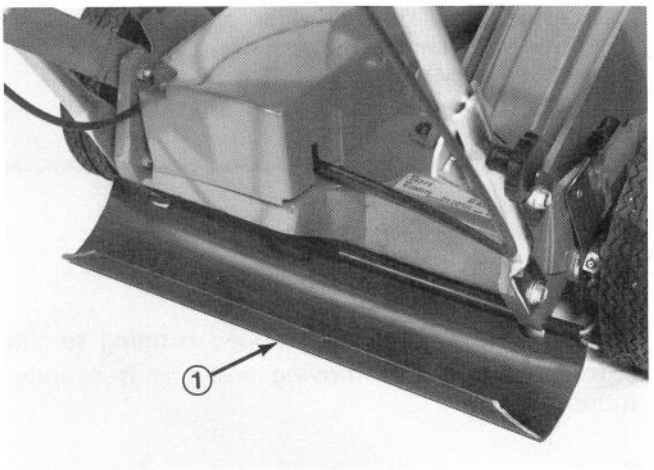


Figure 18

1. Rear shield mounted for safety

OPERATING INSTRUCTIONS

After the mower is used, it must be cleaned and maintained so it is ready for the next cutting. Use the wash-out port to clean the underside of the mower housing. However, avoid getting water directly onto the engine or electrical connections because damage could result. Frequently check the air cleaner and blade, and assure the blade bolt is tightened to 50 ft-lb (68 N·m). The oil in the crankcase must be changed after the first 2 hours of operation and after every 25 hours thereafter. Assure level of oil is always in the SAFE range, as shown on the dipstick; however, never fill oil over the FULL mark because engine damage could result.

Whenever the mower is being operated, adjusted or maintained, the safety instructions at the front of this manual must be kept in mind. Safe operation is your responsibility.

BAGGING

The Rear Bagger discharges grass clippings into a large, 2-1/2 bushel (0.088 m^3) bag, and because of the rear bagging feature, both sides of the mower can be used for trimming. Bagging is most effective when engine is running at maximum speed and only about 1/3 of grass blade is being cut. If an excessive amount of grass is being cut off, the mower can plug and cause the engine to stall. If long grass must be cut, adjust mower to the highest height-of-cut; then cut the grass. Follow this by lowering the height-of-cut and cutting the grass again.

WARNING

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.

To bag the grass with the mower:

1. ⚠ Assure engine has stopped running so that cutter blade is not moving and bag is properly mounted.

2. Assure chute door handle is fully forward and lockout lever is released into catch (Fig. 19). The chute door of mower housing is now closed.

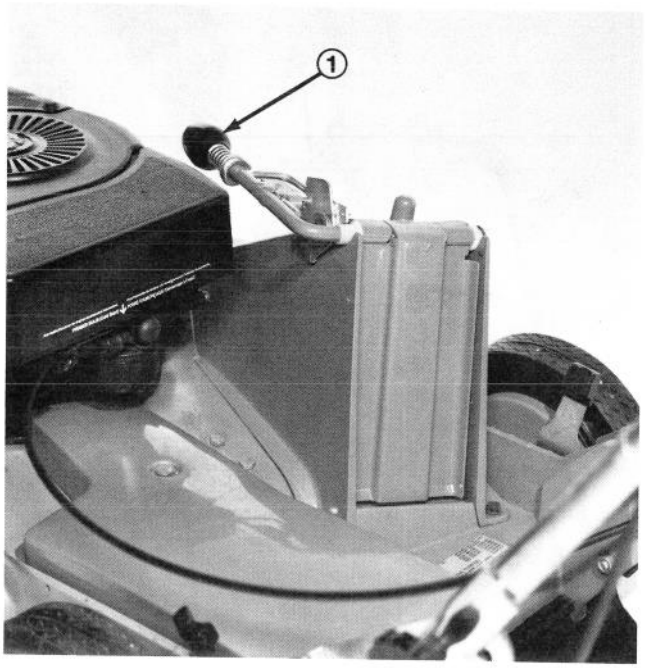


Figure 19

1. Handle forward and door closed

3. Slide guide hole in bag door onto locating stud on mower housing (Fig. 20); then rest rear of bag frame onto handle pins.

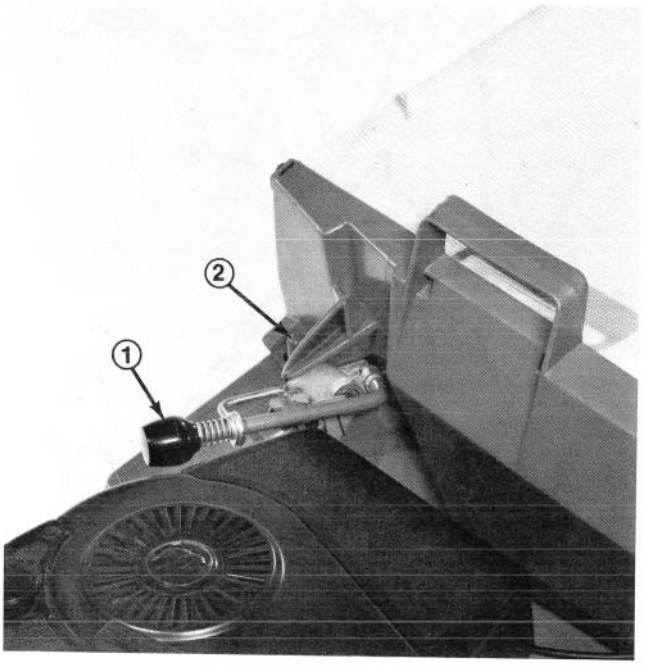


Figure 20

1. Chute door handle fully forward
2. Locating stud

4. Squeeze lockout lever until it clears the housing latch. Then move handle rearward until it locks in notch at rear of bag latch (Fig. 21). The chute door in mower housing is now open, and mower is ready to bag grass.

OPERATING INSTRUCTIONS

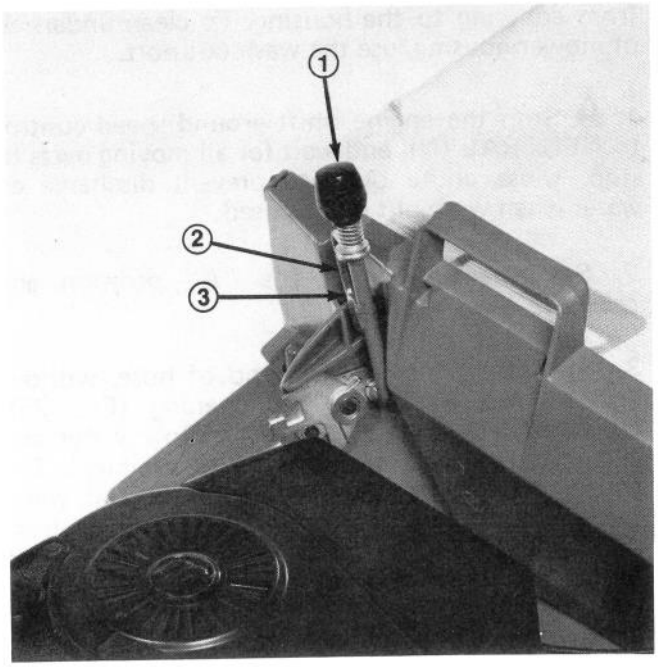


Figure 21

1. *Chute door handle*
2. *Lockout lever*
3. *Notch*

5. ⚠ When bag must be emptied, stop the engine and wait for all parts to stop moving. Move chute door handle forward until it locks in the latch. Then lift bag straight up so clippings stay in the bag rather than falling out the opening.

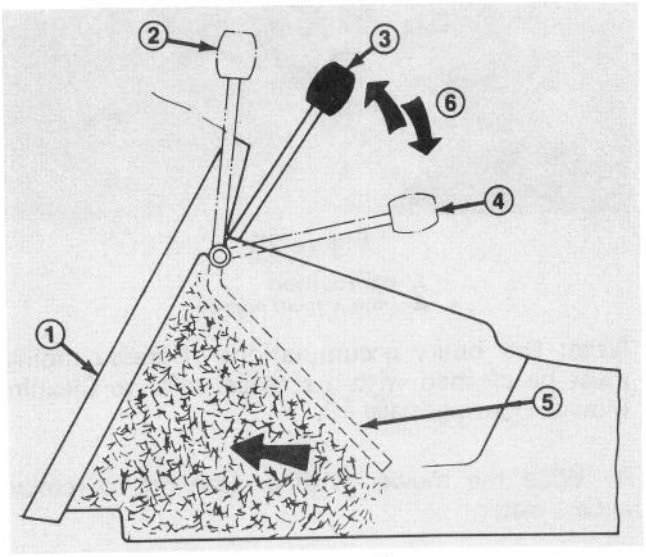


Figure 22

1. *Bag door*
2. *Door open*
3. *Handle*
4. *Door closed*
5. *Chute door*
6. *Packing motion to move excess grass into the bag*

IMPORTANT: If chute door of mower cannot be closed because grass clippings clog the discharge area, move chute door gently, back and forth. Do this until clippings are pushed into the bag and chute door can be closed completely. DO NOT FORCE THE CHUTE DOOR CLOSED because door or handle may be damaged by the compacted grass.

⚠ CAUTION

Never open the chute door when grass bag is removed from the mower and engine is running. Grass clippings and other debris will be discharged with enough force to cause personal injury. Do not operate mower unless complete bag assembly is attached and properly positioned or rear door is completely closed.

6. To dump grass out of bag, grasp handle at rear of bag and open door at front of bag. While shaking the bag, gradually tip it forward so grass sifts out (Fig. 23). Do not try to dump all the grass at once.

7. Reinstall bag by repeating steps 3 and 4.

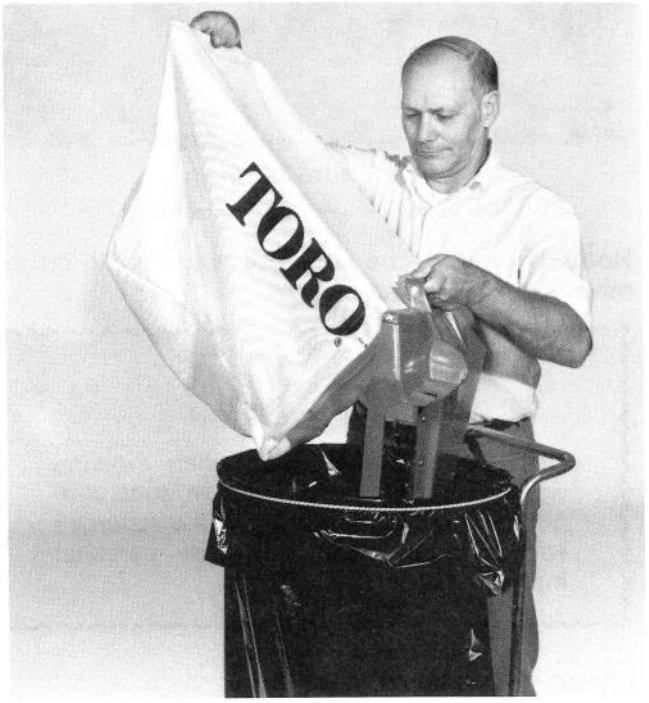


Figure 23

Dumping grass out of bag

MOWING WITHOUT THE BAG

The Rear Bagger can be used for shredding leaves or dry grass. However, this is most effective when only about 1/4 of the grass blade is cut. During this process, the blade slices the cut pieces of grass again and again, so very fine particles of grass are deposited on the lawn. These fine grass clippings eventually decompose.

OPERATING INSTRUCTIONS

To mow without the bag:

1. ⚠ Assure engine is not running and cutter blade is not moving.

2. Squeeze lockout lever, move chute door handle fully forward, and release lever into housing latch (Fig. 24). The chute door in mower housing is now closed, and mower is ready for mowing operation.

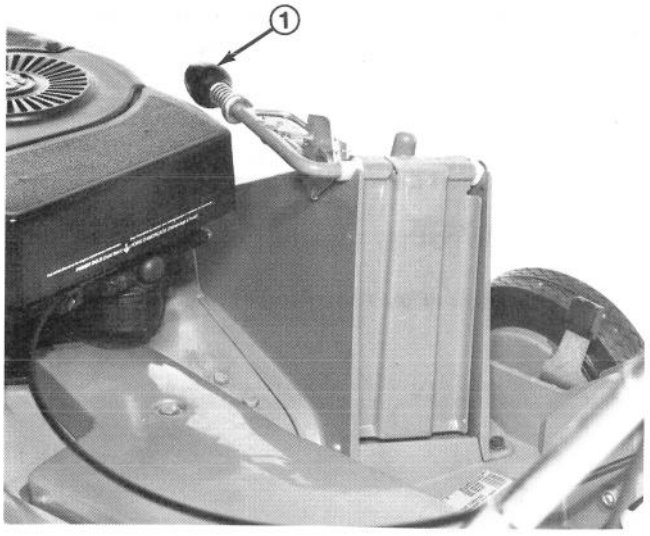


Figure 24

1. Handle forward and door closed

Note: If desired, the grass bag may remain on the mower.

> ⚠ CAUTION
>
> **Never, open chute door when mowing without bag installed because grass clippings or other debris will be discharged with enough force to cause personal injury.**

USING WASH-OUT PORT

After mower is used, the underside of mower housing must be cleaned to prevent grass clippings from adhering to the housing. To clean underside of mower housing, use the wash-out port.

1. ⚠ Stop the engine, shift ground speed control to NEUTRAL (N), and wait for all moving parts to stop. Close chute door to prevent discharge of water when wash-out port is used.

2. Set height-of-cut in the "A" position and open the wash-out port.

3. Start the engine. Insert end of hose, without nozzle, into wash-out port opening (Fig. 25). Using moderate water pressure, allow water and engine to run for approximately two minutes. The action created by the rotating blade and water flushes accumulations of grass clippings from underside of mower housing. When grass is no longer discharged and color of discharged water is clear again, stop the engine. Pull high tension wire off spark plug after all parts stop moving.

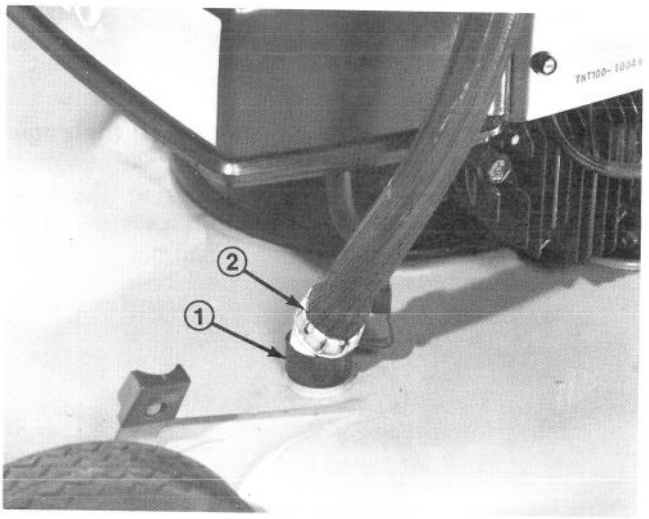


Figure 25

1. Wash-out port
2. Hose without nozzle

Note: Dry bulky accumulations of grass clippings must be cleaned with a scraper: refer to Cleaning Mower Housing, page 19.

4. Wipe the mower with a clean rag to remove excess water.

MAINTENANCE

CAUTION

To prevent personal injury, use extreme caution when an adjustment or maintenance procedure must be performed while the engine is running. Pull high tension wire (Fig. 26) off spark plug if engine does not have to be running while performing adjustment or maintenance procedures.

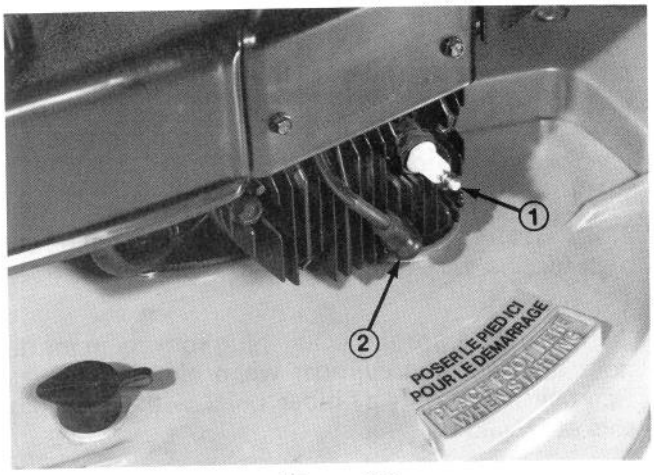


Figure 26

1. Spark plug
2. High tension wire

LUBRICATING WHEEL BEARINGS

The front and rear wheel bearings must be greased after every 25 hours of operation; however, lubricate bearings more frequently when conditions are extremely dusty or sandy.

1. Pull high tension wire off spark plug. Make sure wire does not contact plug accidentally (Fig. 26).

2. Wipe grease fitting with a clean rag. Lubricate wheel bearings with No. 2 general purpose grease (Fig. 27).

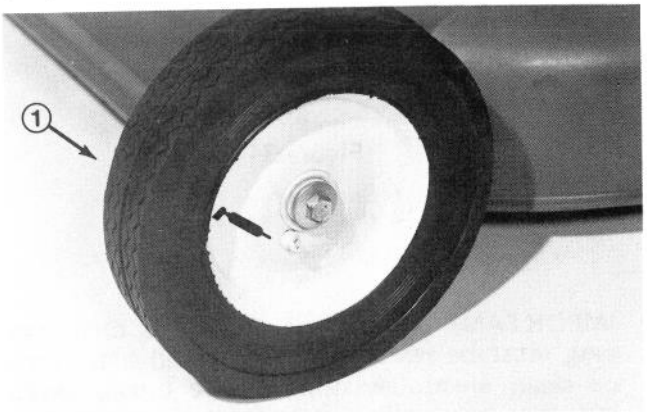


Figure 27

1. Lubricating wheels

Note: Rear wheels will spin easily in one direction only.

LUBRICATING AXLE PIVOTS

After every 25 operating hours, to prevent premature bearing failure, grease the rear axle pivots with No. 2 Multi-Purpose Lithium Base Grease.

1. Set height-of-cut to center height setting (C).

2. Wipe grease fitting with clean rag to prevent dirt from entering bearing area (Fig. 28).

3. Install grease gun onto fitting and apply grease (Fig. 28). (Approximately 2-3 pumps.)

4. Wipe excess grease away and reset height-of-cut to normal setting.

5. Repeat steps 1-4 on rear pivot on opposite side.

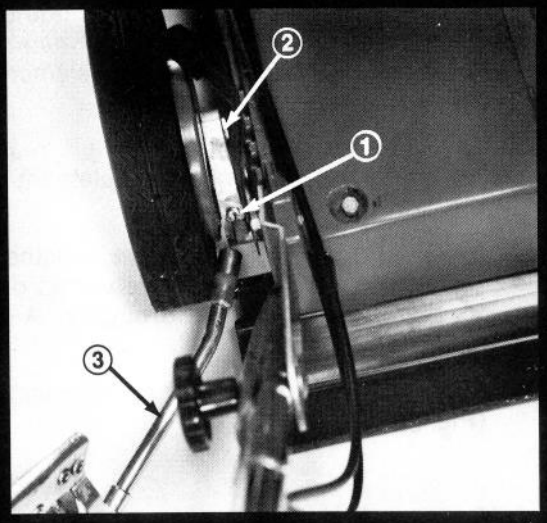


Figure 28

1. Grease fitting
2. Axle pivot
3. Grease gun

SERVICING AIR CLEANER

The air cleaner element must be cleaned after every 25 hours of engine operation if the engine is operated in clean air conditions. The element must be cleaned more frequently, however, when mower is operated in dusty or dirty conditions.

1. ⚠ Assure engine is not running and high tension wire is pulled off spark plug.

2. Place fingers under right side of cover and lift it up (Fig. 29). Clean inside and outside of cover if it is dirty.

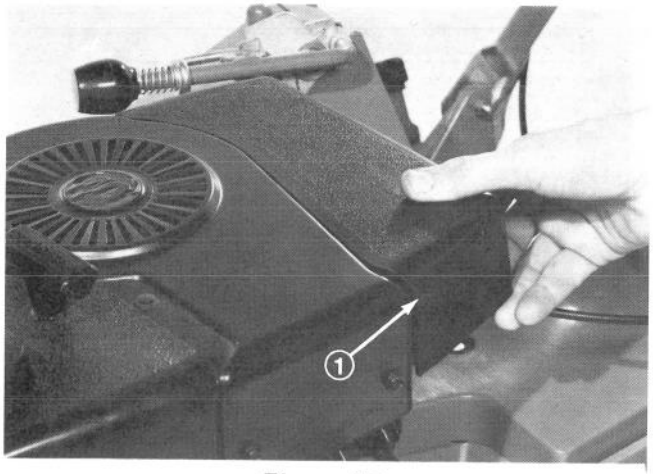


Figure 29

1. Lift to remove cover

3. Look at top of air cleaner element (Fig. 30). If it is dirty, the element must be removed from air cleaner body (Fig. 30) and cleaned.

Note: Take care not to allow dirt to enter air cleaner body.

A. WASH element in a solution of liquid soap and warm water. Squeeze the element to remove dirt. Do not twist element because it may tear.

B. DRY the element by wrapping it in a clean rag. Squeeze the rag and element until element is dry.

C. SATURATE element with engine oil. Squeeze element to remove excess oil and to distribute the oil thoroughly. A damp element is desirable.

D. Place element into the air cleaner body (Fig. 30).

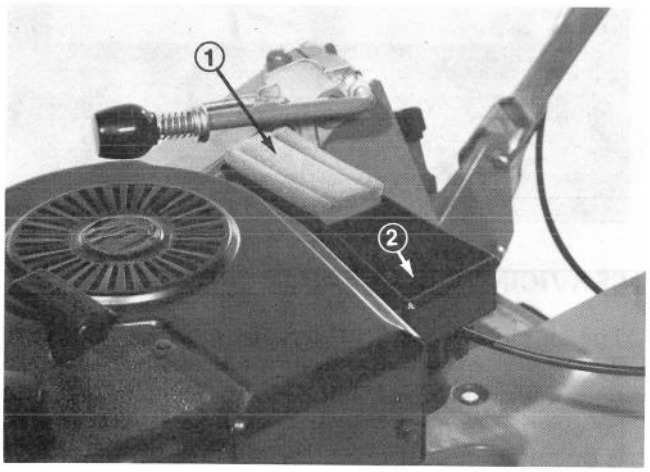


Figure 30

1. Element
2. Air cleaner body

4. Install cover on air cleaner body. Assure cover snaps in place and is seated securely on air cleaner body.

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

REPLACING SPARK PLUG

Recommended spark plug to use is a Champion RJ-17LM or equivalent, and correct air gap is 0.030 of an inch (0.762 mm). Since air gap between center and side electrodes of the spark plug increases gradually during normal engine operation, remove plug after every 25 hours of engine operation and check its condition.

1. ⚠ Assure engine is not running. Then pull high tension wire off spark plug.

2. Clean area around spark plug so foreign matter does not fall into cylinder when plug is removed. Remove plug from cylinder head with spark plug socket (Fig. 31).

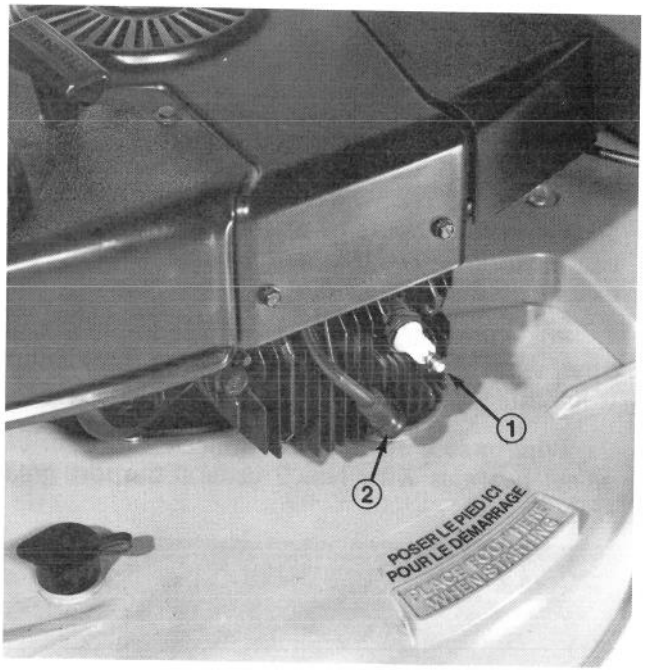


Figure 31

1. Spark plug
2. High tension wire

IMPORTANT: A cracked, fouled or dirty spark plug must be replaced. Do not sand blast, scrape or clean electrodes using a wire brush, because grit may eventually release from the plug and fall into the cylinder. The result will likely be engine damage.

3. Set air gap between electrodes at 0.030 of an inch (0.762 mm) with a spark plug gapping tool (Fig. 32). Install the correctly gapped spark plug with gasket seal and tighten plug to 15 ft-lb (20.4 N·m). If torque wrench is not used, tighten plug firmly.

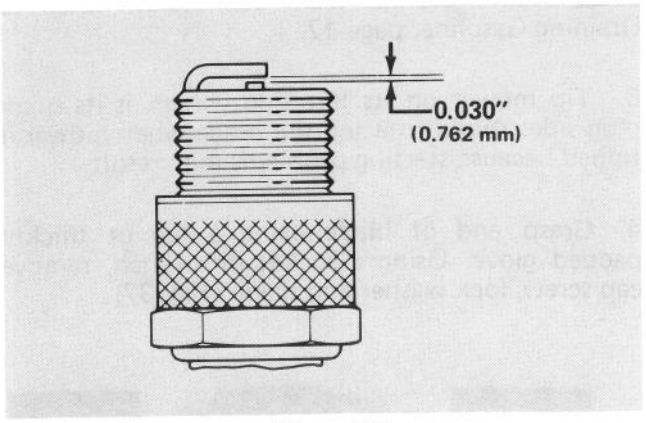


Figure 32

DRAINING GASOLINE

1. ⚠ Assure engine is not running and high tension wire is pulled off spark plug.

2. Place a clean, shallow drain pan below the fuel tank.

3. Squeeze ends of clip holding fuel line on fuel tank fitting (Fig. 33). Slide clip down fuel line.

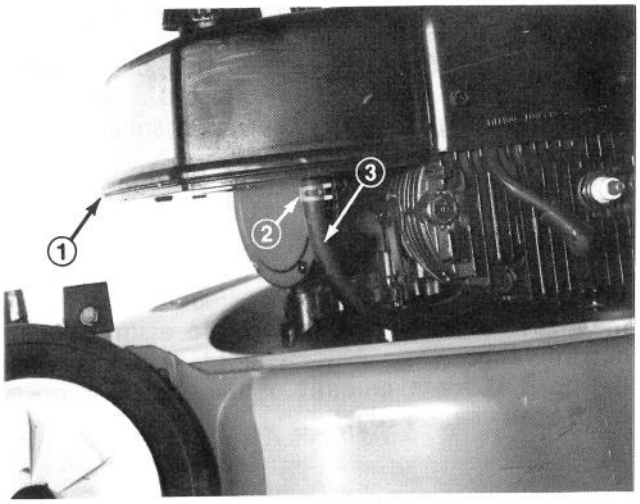


Figure 33

1. Fuel tank
2. Clip
3. Fuel line

4. Carefully pull fuel line off fitting to allow gasoline to flow into drain pan.

5. After gasoline is drained, install fuel line on fuel tank fitting and secure it in place with the clip.

CHANGING CRANKCASE OIL

To prevent possible premature engine failure, change oil after the first 2 hours of engine operation and after every 25 hours thereafter. However, change oil more frequently when engine is operated in dusty or sandy conditions. Since warm oil drains better and carries more contaminants than cold oil, run the engine for a minute or so before changing oil. Use one of the two following methods to drain the oil:

1. ⚠ Assure engine is not running and high tension wire is pulled off spark plug. Also remove grass bag.

2. ⚠ Drain gasoline from fuel tank to prevent a potential hazard.

3. Tip mower on its left side, remove drain plug (Fig. 34) from bottom of engine, tip mower down over drain pan and allow oil to drain into pan.

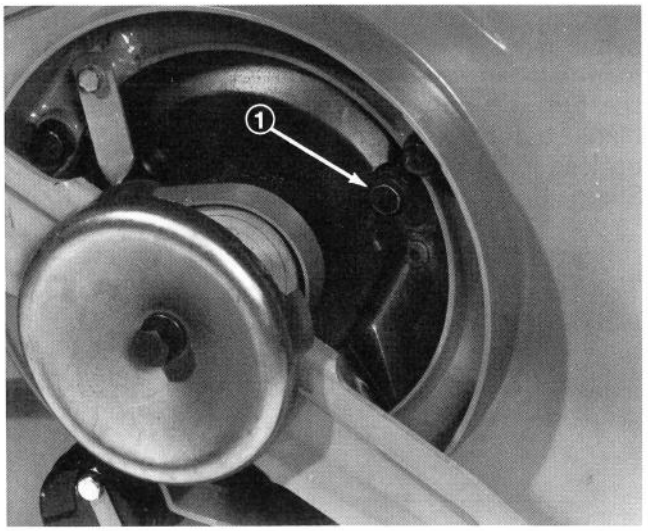


Figure 34

1. Oil drain plug

4. After oil is drained replace oil drain plug and fill engine with oil: refer to step 5.

5. Position the mower on a level surface and fill the crankcase with oil to FULL mark on dipstick: refer to Fill Crankcase With Oil, page 7.

INSPECTING CUTTER BLADE FOR DAMAGE

1. ⚠ Assure engine is not running and high tension wire is pulled off spark plug.

2. ⚠ Drain gasoline from fuel tank: refer to Draining Gasoline, page 17.

3. Tip mower on its left side (Fig. 35), which is its spark plug side. Avoid rotating the blade

MAINTENANCE

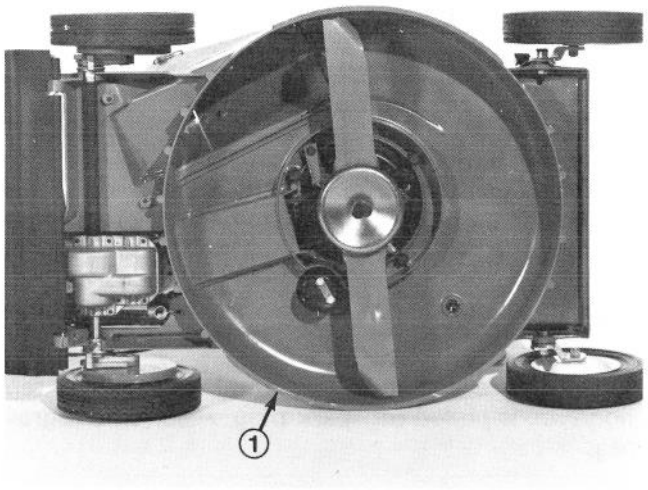


Figure 35

1. Mower tipped on left side

when mower is tipped because starting problems may result.

4. Examine cutting ends of the blade carefully, especially where the flat and curved parts of the blade meet (Fig. 36A). Since sand and abrasive material can wear away the metal that connects the flat and curved parts of the blade, check the blade before using the mower. If any wear is noticed (Fig. 36B), replace the blade: refer to Sharpening or Replacing Cutter Blade, page 18.

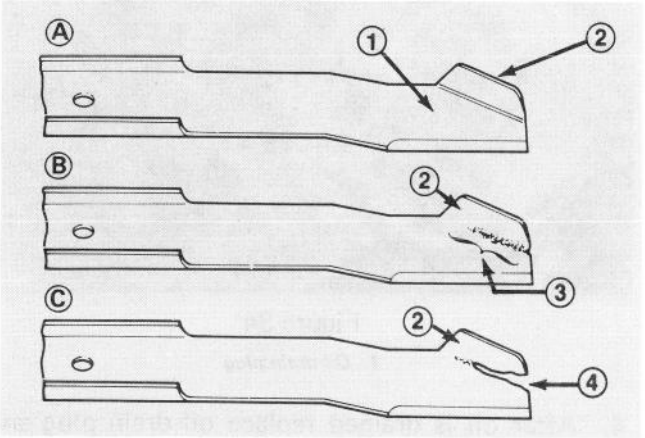


Figure 36

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

⚠ CAUTION

If the blade is allowed to wear, a slot will form between the sail and flat part of the blade (Fig. 36C). Eventually, a piece of the blade may break off and be thrown from under the housing, possibly resulting in serious injury to yourself or bystander.

SHARPENING OR REPLACING CUTTER BLADE

1. ⚠ Assure engine is not running and high tension wire is pulled off spark plug.

2. ⚠ Drain gasoline from fuel tank: refer to Draining Gasoline, page 17.

3. Tip mower on its left side, which is its spark plug side. Avoid rotating the blade when mower is tipped because starting problems may result.

4. Grasp end of blade using a rag or thickly padded glove. Using a socket or wrench, remove cap screw, lock washer and blade (Fig. 37).

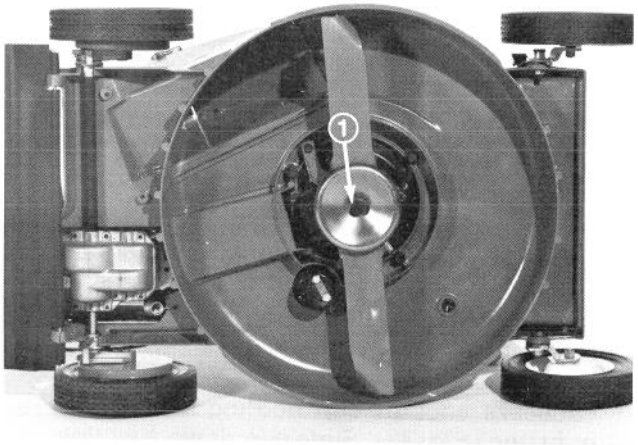


Figure 37

1. Capscrew, lockwasher and anti-scalp cup

Note: To assure optimum cutting performance, install a new blade at the start of the cutting season. During the year, file down small nicks to maintain a fine cutting edge.

5. Using a file, sharpen cutting edge at both ends of the blade (Fig. 38).

IMPORTANT: Sharpen top side of blade and maintain original cutting angle to assure a sharp cutting edge (Fig. 38). The blade will remain balanced if same amount of material is removed from both cutting edges.

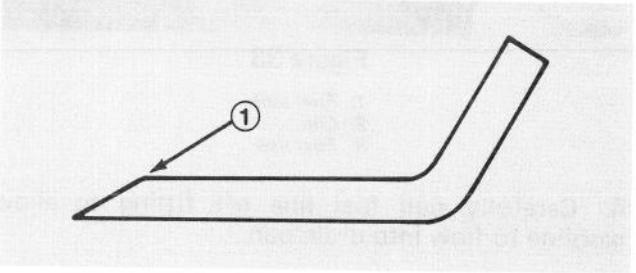


Figure 38

1. Sharpen at original angle

6. Check balance of blade by putting it on a blade balancer. A balanced blade will stay in a horizontal position on the balancer. By contrast, a blade that is not balanced will settle to the heavy side. If blade is not balanced, file more metal off cutting edge on heavy end of the blade. Then check the blade balance again.

Note: An inexpensive blade balancer can be purchased at a hardware store.

7. Install sharp, balanced blade and scalp cup with lock washer and cap screw. Sail part of the blade must point toward top of the mower housing to assure correct installation. Tighten cap screw to 50 ft-lb (68 N·m).

8. Set mower upright.

CLEANING MOWER HOUSING

To assure a good cut and efficient grass bagging, underside of mower housing and inside of discharge area must be kept clean: refer to Using Wash-out Port, page 14.

1. ⚠ Assure engine is not running and high tension wire is pulled off the spark plug.

2. ⚠ Drain gasoline from fuel tank: refer to Draining Gasoline, page 17.

3. Tip mower on its left side (Fig. 39), which is the spark plug side. Avoid rotating the blade when mower is tipped because starting problems may result.

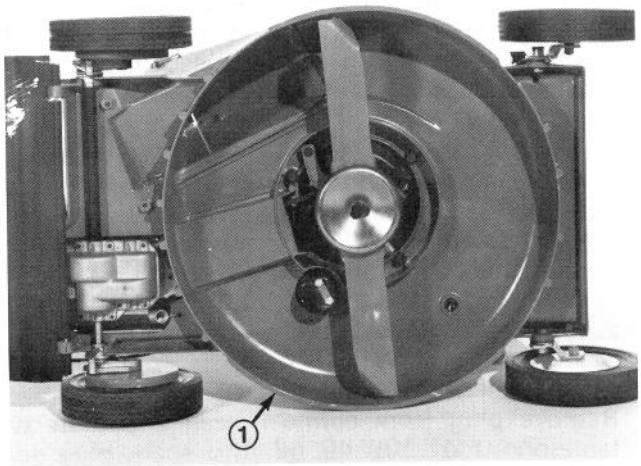


Figure 39

1. Mower tipped on left side

4. Remove grass clippings and dirt that sticks to the housing by spraying it with a garden hose. Scrape out any grass that water does not remove from housing with a hard wood scraper. Take care to avoid any burrs and sharp edges.

5. Set mower upright.

ADJUSTING THROTTLE CONTROL

An adjustment of the throttle control may be required if the engine does not start or stop. Whenever a new throttle control cable assembly is installed, the throttle must be adjusted.

1. ⚠ Assure engine is not running and high tension wire is pulled off the spark plug.

2. Close door in mower housing and remove bag.

3. Move the throttle control lever to the OFF position.

4. Loosen cable clamp screw until throttle cable is free to slide (Fig. 40).

5. Move carburetor control arm to the left until it contacts grounding bracket (Fig. 40). Pull throttle cable slightly to remove any slack and tighten the cable clamp screw to lock the adjustment in place.

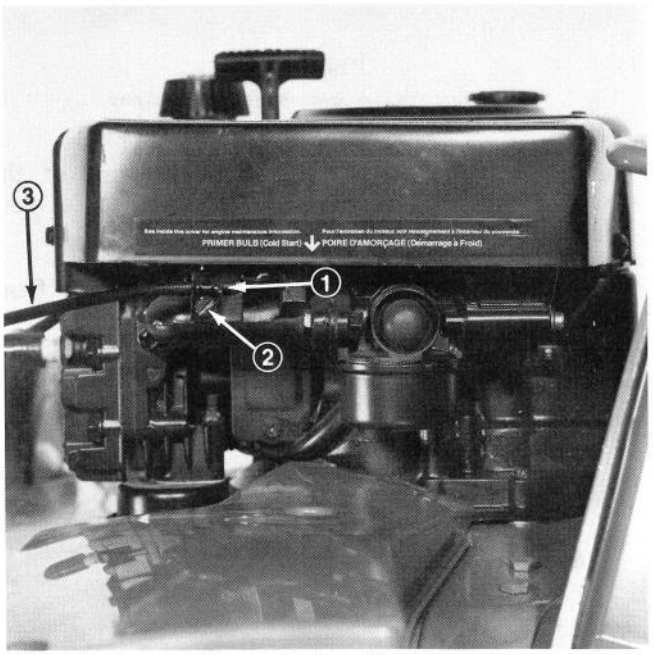


Figure 40

1. Control arm
2. Clamp screw
3. Throttle cable

INSTALLING GROUND SPEED CONTROL

Whenever a new ground speed control assembly is installed, the control must be adjusted.

1. Assure engine is not running and high tension wire is pulled off the spark plug.

2. Close door in mower housing and remove bag.

3. Remove two capscrews securing transmission cover and remove cover (Fig. 41). Thoroughly clean the top of the transmission.

4. Loosen the capscrew securing the ground speed control cable, remove the roll pin securing the trans-

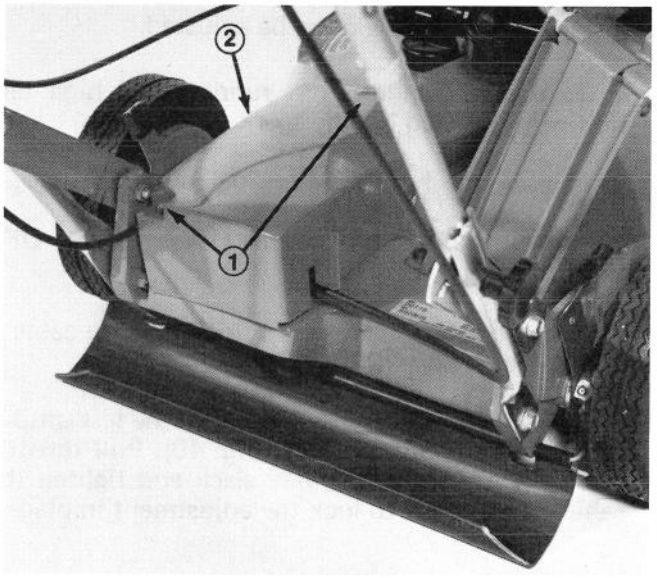


Figure 41

1. Transmission cover mounting capscrews
2. Transmission cover

mission control lever, pull the lever out of the transmission and remove the control cable from the lever (Fig. 42).

5. Remove the ground speed control lever from the control panel.

6. Install speed control cable assembly into control panel and adjust the assembly for proper operation: refer to Adjusting Ground Speed Control, page 20.

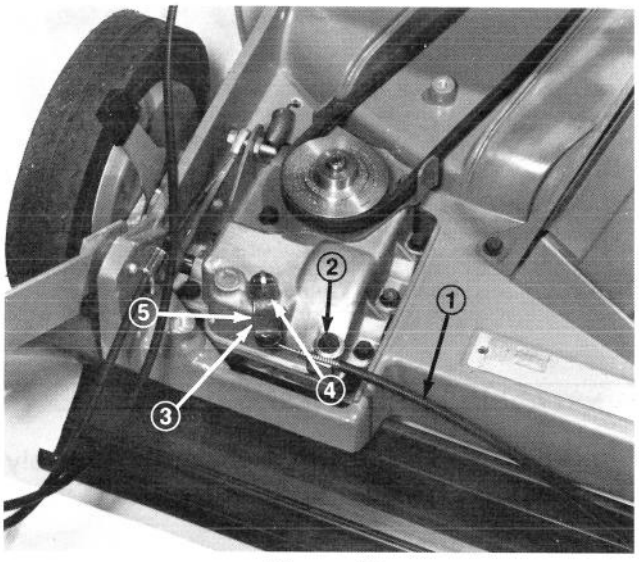


Figure 42

1. Ground speed control cable
2. Capscrew
3. Transmission control lever
4. Roll pin
5. Push towards capscrew

7. Insert new cable end into hole in control lever from bottom of lever, install lever into the transmission and secure with the roll pin (Fig. 42).

ADJUSTING GROUND SPEED CONTROL

An adjustment of the ground speed control may be required if the ground speed of the mower is incorrect. Whenever a new ground speed control assembly is installed, the control must be adjusted.

1. Assure engine is not running and high tension wire is pulled off the spark plug.

2. Close door in mower housing and remove bag.

3. Remove two capscrews securing transmission cover and remove cover (Fig. 41).

4. Loosen the capscrew securing the ground speed control cable (Fig. 42, item 1).

5. Move the ground speed control lever to NEUTRAL (N).

6. Push transmission control lever to right in direction of cable clamping capscrew as far as possible, hold in position and tighten capscrew (Fig. 42).

7. Pull mower rearward with ground speed control in NEUTRAL. Mower should pull back freely without any rotation of pulley on top of gear case. If rotation of pulley occurs, adjustment for NEUTRAL is incorrect. Repeat steps 4-6.

8. Install transmission cover.

PREPARING MOWER FOR STORAGE

1. Drain gasoline from fuel tank and fuel line: refer to Draining Gasoline, page 17. Start the engine and let it run at idle speed until it stops because all gasoline is expended.

Note: All gasoline must be expended to prevent gum-like varnish deposits from forming in the carburetor, fuel line and fuel tank. Such deposits, if allowed to form, will cause starting problems and poor engine operation.

2. Pull high tension wire off spark plug and clean area around the plug so foreign matter cannot fall into cylinder when plug is removed. Remove plug from cylinder head and pour two tablespoons of 10W-40 oil into spark plug hole. Pull recoil starter handle slowly to distribute oil on inside of cylinder. Then install spark plug and tighten it to 15 ft-lb (20.4 N·m). If torque wrench is not used, tighten plug firmly. DO NOT INSTALL HIGH TENSION WIRE ON SPARK PLUG.

3. Tip mower on its left side, remove drain plug from bottom of engine, lower mower into drain

pan and allow oil to flow into drain pan (Fig. 43). After all oil is drained, install drain plug but do not fill crankcase with oil until steps 4 through 9 are completed.

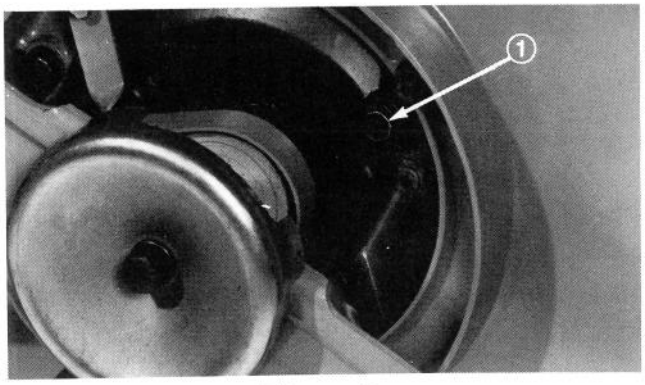


Figure 43

1. Oil drain plug

4. Clean dirt and chaff from outside of cylinder, cylinder head fins and blower housing. Also, remove grass clippings, dirt and grime from external parts of engine, shrouding and top of mower housing.

5. Clean underside of mower housing: refer to Cleaning Mower Housing, page 19.

6. Check condition of blade and blade cap screw: refer to Inspecting Cutter Blade For Damage, page 18.

7. Check and tighten all cap screws, bolts, screws, nuts and mating parts. If any part is damaged, repair or replace it. Inspect grass bag. Replace it if it is damaged or deteriorated.

8. Lubricate wheel bearings and rear pivot assemblies: Refer to Lubricating Wheel Bearings, page 15 and Lubricating Axle Pivots, page 15.

9. Wash the air cleaner element in a liquid soap detergent and water and add oil to element: refer to Servicing Air Cleaner, page 15.

10. Fill crankcase with oil: refer to Fill Crankcase With Oil, page 7.

11. "Touch up" all chipped paint surfaces. Make sure to sand affected area before painting.

Note: TORO Re-Kote "touch-up" paint is available from any Authorized TORO Service Dealer. The spray paint dries in minutes to a glossy, factory-finish.

12. Store the mower in a clean, dry place. For convenience, upper handle can be folded for more compact storage. Cover the mower to protect it and keep it clean.

Note: Assure upper handle is in proper position and handle knobs are securely tightened before resuming operation.

IDENTIFICATION AND ORDERING

MODEL AND SERIAL NUMBERS

The Rear Bagger has two identification numbers: a model number and a serial number. The two numbers are stamped into a decal (Fig. 44) located at rear of the mower housing, near the discharge door. In any correspondence concerning the mower, supply model and serial numbers to assure correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer, supply the following information:

1. Model and serial number of the mower.

Note: Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

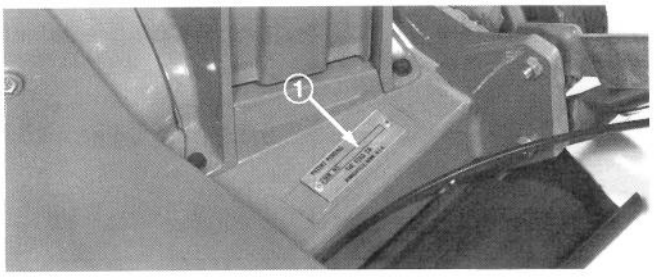


Figure 44

1. Model and serial number decal

TROUBLE SHOOTING

Problem	Possible Causes	Correction Action
Engine does not start.	1. Throttle not in start position.	1. Move throttle to III.
	2. Gas tank is empty.	2. Fill fuel tank with gasoline: refer to Fill Fuel Tank With Gasoline, page 7.
	3. Air cleaner element is dirty.	3. Clean air cleaner element: refer to Servicing Air Cleaner, page 15.
	4. Spark plug loose.	4. Tighten spark plug to 15 ft-lb (20.4 N·m).
	5. High tension wire loose or disconnected from spark plug.	5. Install high tension wire on plug.
	6. Spark plug gap is incorrect.	6. Set gap between electrodes at 0.030 of an inch (0.762 mm).
	7. Spark plug is defective.	7. Install new, correctly gapped plug: refer to Replacing Spark Plug, page 16.
	8. Carburetor is flooded with gasoline.	8. Remove air cleaner element and pull starter rope continuously until carburetor clears itself and engine starts. When engine starts, stop it and install air cleaner element.
	9. Blade bolt is loose.	9. Tighten blade bolt to 50 ft-lb (68 N·m).
	10. Faulty points or condenser.	10. Contact TORO Service Dealer.
Engine starts hard or loses power.	1. Dirt or water in gas tank.	1. Drain gas and clean fuel tank. Fill tank with clean, fresh gasoline: refer to Fill Fuel Tank With Gasoline, page 7.
	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: refer to Servicing Air Cleaner, page 15.
	4. Blade bolt is loose.	4. Tighten blade bolt to 50 ft-lb (68 N·m).
Engine operates erratically.	1. Spark plug is defective.	1. Install new, correctly gapped plug: refer to Replacing Spark Plug, page 16.
	2. Spark plug gapped incorrectly.	2. Set gap between electrodes at 0.030 of an inch (0.762 mm).
	3. Air cleaner is dirty.	3. Clean the air cleaner element: refer to Servicing Air Cleaner, page 15.
Engine idles poorly.	1. Air cleaner is dirty.	1. Clean the air cleaner element: refer to Servicing Air Cleaner, page 15.
	2. Oil level in crankcase is low.	2. Add oil to crankcase: refer to Fill Crankcase With Oil, page 7.
	3. Air slots in engine shroud are plugged.	3. Remove obstruction from slots.
	4. Cooling fins and air passages under engine blower housing are plugged.	4. Remove obstruction from cooling fins and air passages.

TROUBLE SHOOTING

Problem	Possible Causes	Corrective Action
Engine skips at high speed.	1. Air gap between electrodes of spark plug is too close.	1. Set air gap at 0.030 of an inch (0.762 mm).
Engine overheats.	1. Cooling air flow is restricted. 2. Oil level in crankcase is low. 3. Incorrect spark plug. **Note:** A Toro Service Dealer may have to be consulted if any of the above causes have occurred.	1. Remove any obstruction from slots in shroud, blower housing, air passages, and cooling fins on engine. 2. Add oil to crankcase: refer to Fill Crankcase With Oil, page 7. 3. Install Champion RJ-17LM spark plug that is gapped at 0.030 of an inch (0.762 mm).
Mower vibrates abnormally.	1. Blade bolt is loose. 2. Cutter blade is unbalanced.	1. Tighten blade bolt to 50 ft-lb (68 N·m). 2. Sharpen cutter blade and check the balance: refer to Sharpening or Replacing Cutter Blade, page 18. Replace the blade if it cannot be balanced.
No traction drive.	1. Ground speed control maladjusted or broken. 2. Transmission drive belt loose or broken. 3. Traction Control Handle cable maladjusted or broken. 4. Damaged wheel and pinion gear assembly. 5. Malfunction in transmission assembly. **Note:** A Toro Service Dealer may have to be consulted if items 2-5 have occurred.	1. Adjust ground speed control: refer to Adjusting Ground Speed Control, page 21, or Installing Ground Speed Control, page 20. 2. Adjust belt tension or replace belt. 3. Adjust or replace cable. 4. Repair as necessary. 5. Repair as necessary.
Mower Creeps forward – traction control handle disengaged	1. Debris caught between mower housing and transmission. (Belt under tension). 2. Traction belt over-tensioned, i.e., belt not loose enough when disengaged.	1. Remove transmission cover and clear debris away: refer to Figure 42, page 20. 2. Relieve belt tension. Contact an Authorized Toro Service Dealer for assistance.

The Toro Promise

A ONE YEAR LIMITED WARRANTY

The Toro Company promises to repair any TORO Product if defective in materials or workmanship. The following time periods from the date of purchase apply:

Residential Product . . . . . 1 Year
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 Product is defective and wish to rely on The Toro Promise, the following procedure is recommended:

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 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 dealer's analysis of the defect or the service performed, you may contact us.

Write:

TORO Consumer Service Department
8111 Lyndale Avenue South
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 MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

Some states do not allow limitations on how long an 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 Account 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 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 the exclusion or limitation of incidental or consequential damages, so the above limitation or 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 fail, you may contact us at The Toro Company.

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