



MODEL NO. 30799 — 200000001 &amp; UP

# OPERATOR'S MANUAL

## 72" Flex Deck™ Side Discharge Mower FOR GROUNDMASTER® 300 SERIES TRACTION UNITS

To ensure maximum safety, optimum performance, and to gain knowledge of the product, it is essential that you or any other operator of the machine read and understand the contents of this manual before the engine is ever started. Pay particular attention to the **SAFETY INSTRUCTIONS** highlighted by this symbol —



The safety alert symbol means **CAUTION, WARNING or DANGER** — personal safety instruction. Failure to comply with the instruction may result in personal injury.



THIS UNIT CONFORMS TO  
ANSI/OPEI B71.4—1990

The Groundmaster 300 Series Traction unit with a 72" Flex Deck Side Discharge Mower conforms to the American National Standards Institute's for Riding Mowers when weights are installed according to chart on page 12.



# FOREWORD

The 72" Flex Deck Side Discharge Mower has advanced concepts in engineering, design and safety; and if maintained properly, will give excellent service.

Since this is a high—quality product, Toro is concerned about the future use of the machine and safety of the user. Therefore, read this manual to familiarize yourself with proper set—up, operation and maintenance instructions. The major sections of the manual are:

- |                        |                     |                |
|------------------------|---------------------|----------------|
| 1. Safety Instructions | 3. Before Operating | 5. Lubrication |
| 2. Set—up Instructions | 4. Operation        | 6. Maintenance |

Certain information in this manual is emphasized. DANGER, WARNING and CAUTION identify personal safety related information. IMPORTANT identifies mechanical information demanding special attention. Be sure to read this directive because it deals with the possibility of damaging a part or parts of the machine. NOTE identifies general information worthy of special attention.

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# SAFETY INSTRUCTIONS



The safety alert symbol means **CAUTION, WARNING or DANGER** — “personal safety instruction”. Read and understand the instruction because it has to do with safety. Failure to comply with the instruction may result in personal injury.

**Hazard control and accident prevention are dependent upon the awareness, concern, and proper training of the personnel involved in the operation, transport, maintenance, and storage of the machine. Improper use or maintenance of the machine can result in injury or death. To reduce the potential for injury or death, comply with the following safety instructions.**

**WARNING:** Engine exhaust contains carbon monoxide which is an odorless, deadly poison. Carbon monoxide is also known to the State of California to cause birth defects. Do not run engine indoors or in an enclosed area.

## BEFORE OPERATING

1. Read and understand the contents of this Operator's Manual before operating the machine. Become familiar with all controls and know how to stop quickly. A free replacement manual is available by sending complete Model and Serial Number to:

The Toro Company  
8111 Lyndale Avenue South  
Minneapolis, Minnesota 55420-1196

2. Never allow children to operate the machine. Do not allow adults to operate machine without proper instruction. Only trained operators who have read this manual should operate this machine.

3. Never operate the machine when under the influence of drugs or alcohol.

4. Remove all debris or other objects that might be picked up and thrown by the cutter blades. Keep all bystanders away from the mowing area.

5. Keep all shields and safety devices in place. If a shield, safety device or decal is illegible or damaged, repair or replace it before operation is commenced. Also tighten any loose nuts, bolts and screws to ensure machine is in safe operating condition.

6. Do not operate machine while wearing sandals, tennis shoes, sneakers or shorts. Also, do not wear loose fitting clothing which could get caught in moving parts. Always wear long pants and substantial shoes. Wearing safety glasses, safety shoes and a helmet is advisable and required by some local ordinances and insurance regulations.

7. Check interlock switches daily for proper operation (Refer To Section in Traction Unit Operator's Manual on Checking Interlock Switches). Do not rely entirely on safety switches -shut off engine before getting off seat. If a switch fails, replace it before operating the machine. The interlock system is for your protection, so do not bypass it. Replace all interlock switches every two years. Interlock switches should be adjusted so:

- A. Engine cannot be started unless traction pedal is released (neutral position) and PTO lever is DISENGAGED (off position).
- B. Engine stops if operator gets off seat when traction pedal is depressed.
- C. Engine stops if operator gets off seat when PTO lever is ENGAGED (on position).

8. Fill fuel tank before starting the engine. Avoid spilling any fuel. Since fuel is flammable, handle it carefully.

- A. Use an approved fuel container.
- B. Do not fill tank while engine is hot or running.
- C. Do not smoke while handling gasoline.
- D. Fill fuel tank outdoors and up to about one inch from top of the tank, not the filler neck.
- E. Wipe up any spilled gasoline.

## WHILE OPERATING

9. Do not run the engine in a confined area without adequate ventilation. Exhaust fumes are hazardous and could possibly be deadly.

10. Maximum seating capacity is one person. Never carry passengers.

11. Sit on the seat when starting the engine and operating the machine.

12. This product may exceed noise levels of 85 dB(A) at the operator position. Ear protectors are recommended for prolonged exposure to reduce the potential of permanent hearing damage.

13. Before starting the engine:

- A. Engage the parking brake.
- B. Ensure traction pedal is in neutral and PTO is in the OFF, disengaged position.
- C. After engine is started, release parking brake and keep foot off traction pedal. Machine must not move. If movement is evident, the neutral return mechanism is adjusted incorrectly; therefore, shut engine off and adjust until machine does not move when traction pedal is released.

14. Using the machine demands attention, and to prevent loss of control:

- A. Mow only in daylight or when there is good artificial light.
- B. Drive slowly and watch for holes or other hidden hazards.
- C. Do not drive close to a sand trap, ditch, creek or other hazard.

# SAFETY INSTRUCTIONS

- D. Reduce speed when making sharp turns and when turning on hillsides.
  - E. Avoid sudden starts and stops.
  - F. Before backing up, look to the rear and ensure no one is behind the machine.
  - G. Watch out for traffic when near or crossing roads. Always yield the right-of-way.
15. If engine stalls or machine loses headway and cannot make it to the top of a slope, do not turn machine around. Always back slowly straight down the slope.
16. The grass deflector must always be installed in lowest position on the side discharge cutting unit. Never operate mower without deflector or entire grass collector. This product is designed to drive objects into the ground where they lose energy quickly in grassy areas. **However, don't take an injury risk!!** When a person or pet appears unexpectedly in or near the mowing area, **STOP MOWING**. Careless operation, combined with terrain angles, ricochets, or improperly positioned guards, can lead to thrown object injuries. Do not resume mowing until area is cleared. If the cutting unit discharge area ever plugs, shut engine off before removing the obstruction.
17. Never raise the cutting unit while the blades are rotating.
18. If the cutting blades strike a solid object or the machine vibrates abnormally, disengage PTO, move throttle to SLOW, set parking brake and shut engine off. Remove key from switch to prevent possibility of accidental starting. Check cutting unit and traction unit for damage and malfunctioning parts. Repair any damage before restarting the engine and operating the cutting unit. Be sure blades are in good condition and blade bolts are tight.
19. Cut grass slopes carefully. Do not start, stop, or turn suddenly.
20. Do not touch engine or muffler while engine is running or soon after it is stopped. These areas could be hot enough to cause a burn.
21. Before getting off the seat:
- A. Move traction pedal to neutral position and remove foot from pedal.
  - B. Set the parking brake and disengage the PTO.
  - C. Shut the engine off and remove the key from the ignition switch. Wait for all movement to stop before getting off the seat.
22. Lower the cutting unit to the ground and remove key from ignition switch whenever machine is left unattended.
23. This product may exceed noise levels of 85 dB(A) at the operator position. Ear protectors are recommended for prolonged exposure to reduce the potential of permanent hearing damage.

## MAINTENANCE

24. Remove key from ignition switch to prevent accidental starting of the engine when servicing, adjusting or storing the machine.
25. Perform only those maintenance instructions described in this manual. If major repairs are ever needed or assistance is desired, contact an Authorized Toro Distributor.
26. To reduce potential fire hazard, keep the engine free of excessive grease, grass, leaves and accumulations of dirt.
27. Be sure machine is in safe operating condition by keeping nuts, bolts and screws tight. Check the blade mounting bolts and nuts frequently to be sure they are tightened to specification.
28. Make sure all hydraulic line connectors are tight, and all hydraulic hoses and lines are in good condition before applying pressure to the system.
29. Keep body and hands away from pin hole leaks in hydraulic lines that eject high pressure hydraulic fluid. Use cardboard or paper to find hydraulic leaks. Hydraulic fluid escaping under pressure can penetrate skin and cause injury. Fluid accidentally injected into the skin must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.
30. Before disconnecting or performing any work on the hydraulic system, all pressure in system must be relieved by stopping engine and lowering cutting unit to the ground.
31. If the engine must be running to perform a maintenance adjustment, keep hands, feet, clothing and other parts of the body away from the cutting unit blades and other moving parts.
32. Do not overspeed the engine by changing governor settings. To be sure of safety and accuracy, have an Authorized TORO Distributor check maximum engine speed with a tachometer.
33. Engine must be shut off before checking oil or adding oil to the crankcase.
34. At the time of manufacture the cutting unit conformed to safety standards in effect for riding mowers. Therefore, to ensure optimum performance and safety, always purchase genuine TORO replacement parts and accessories to keep the Toro all TORO. NEVER USE "WILL-FIT" REPLACEMENT PARTS AND ACCESSORIES MADE BY OTHER MANUFACTURERS. Look for the TORO logo to ensure genuineness. Using unapproved replacement parts and accessories could void the warranty of The Toro Company.

# SAFETY AND INSTRUCTION DECALS

The following decals are installed on the machine. If any become damaged or illegible, replace it. The decal part number is listed below and in your parts catalog. Replacements can be ordered from your Authorized Toro Distributor.



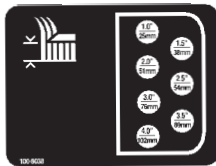
**ON LEFT CHAMBER COVER**  
(Part No. 93-3709 )



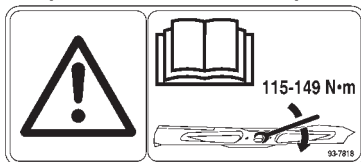
**ON FRONT NOSE OF EACH CHAMBER**  
(Part No. 100-6582)



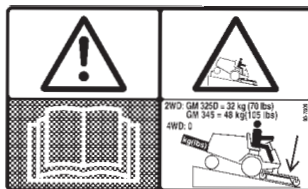
**LOCATED BY SPRINGS**  
(Part No. 93-6696)



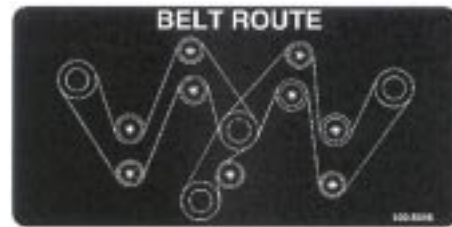
**ON RIGHT REAR HANGER, CENTER CHAMBER**  
(Part No. 100-8038)



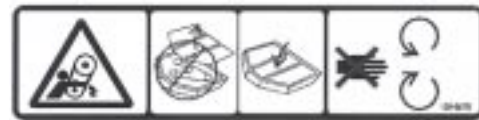
**ON LEFT RIGHT SUPPORT OF LEFT CHAMBER**  
(Part No. 93-7818)



**ON REAR OF LEFT CHAMBER**  
(Part No. 93-7809)



**ON FRONT CENTER OF EACH CHAMBER**  
(Part No. 100-8046)



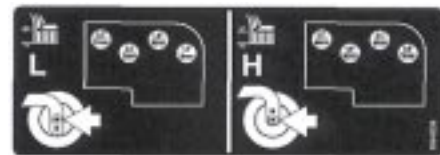
**ON FRONT CENTER OF EACH CHAMBER**  
(Part No. 100-6578)



**ON LEFT SIDE OF GEAR BOX**  
(Part No. 93-6697)



**NEAR DISCHARGE CHUTE**  
(Part No. 93-7824)



**NEAR REAR HANGER BRACKETS, RIGHT CHAMBER**  
(Part No. 100-8039 )



**ON FRONT OF LEFT ARM ASSEMBLY**  
(Part No. 92-3035)



# SPECIFICATIONS

**Width of Cut:** 72"

**Configuration:** Three blades, one blade center section, and two 1 blade floating wings. Wings flex up and down 12 degrees in a single plane perpendicular to from center section.

**Height of Cut:** Adjustable front and rear, in .50 inch increments from 1 to 4 inches.

**Construction:** 12-gauge steel, 5.25 inches deep, welded construction and reinforced with 10-gauge steel channels.

**Blades:** Three 25 inch long, .250 inch thick, heat treated steel blades.

**Cutter Drive:** PTO driven gearbox with 1.26–1 spiral bevel gears. One "B" section belt on center section. One "B" section belt on each wing. Center section tensioned through spring loaded idler. Wings tensioned through adjustable fixed idler.

**Spindles:** Cast iron housing, 1–1/4 inch dia shaft with welded blade retainer. Turning on two greaseable tapered roller bearings. A positive splined connection attaches pulley to spindle shaft.

**Specifications and design subject to change without notice.**

**Castor Wheels:** Front: Four 8 inch pneumatic wheels with greaseable roller bearings. Rear: Two 8 inch pneumatic wheels with greaseable roller bearings (one on each wing). Center section suspended from push arms.

**Anti Scalp:** Anti-scalp cup (11 inch diameter) located on each blade. One anti-scalp roller on rear of center section. Adjustable skid on right wing.

**Trimability:** 34" uncut circle, 25" uncut circle with use of individual wheel brakes.

**Tip Speed:** 15,000 ft./min. @ 3200 engine RPM.

**Discharge:** Left hand, side discharge (recycler kit available).

**Safety Certification:** To meet, proposed ANSI B71.4–1990 and 1999, safety specifications for power lawn mowers, and CE requirements.

**Belt Covers:** Steel covers bolted down, meets CE requirements.

**Sound Levels:** 90 dba @ operator ear.

**Weight:** 550 lbs.

**Width:** 83.5 in.

**Options:**

High Lift Blade:	Part No. 23–2410
Height of cut spacers 1/4"	Part No. 54–8810
Tire – Foam Filled 8"	Part No. 93–5974

# LOOSE PARTS

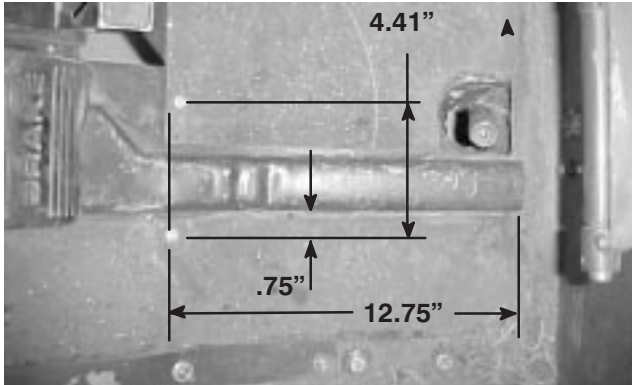
**NOTE:** Use this chart as a checklist to ensure all parts have been received. Without these parts, total set—up cannot be completed.

Description	Qty.	Use
Hose Clamp	1	Install hose clamp
Hose Bracket	2	
Capscrew 1/4—20 x 1" lg.	2	
Nut	2	
Push Arm Adapter	1	Install right push arm adaptor
Push Arm Plate	1	
Capscrew 3/8—16 x 2—3/4" lg.	4	
Flat Washer	4	
Nut	4	
Front Lift Arm	1	
Lock Nut	2	
Capscrew 1/2—13 x 3—1/2" lg.	2	
Rear Lift Bracket	1	Install rear lift support
Square U—Bolt	1	
U—Bolt	1	
H.O.C. Chain	1	
Clevis Pin	1	
Hair Pin	1	
Nut	6	
Capscrew 3/8—16 x 7/8" lg.	4	Secure covers for C.E.
Operator's Manual	1	Read Before Operating Machine.
Parts Catalog	1	Fill Out And Return To Toro.
Registration Card	1	

## SET-UP INSTRUCTIONS

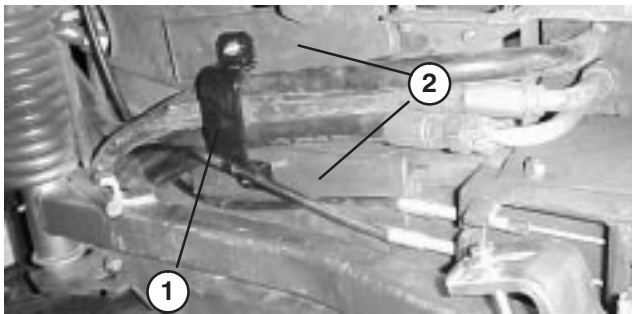
## MOUNT HOSE CLAMP (Fig. 1 –2)

1. Using dimensions shown in figure 1, locate, mark and drill (2) .280" dia. holes in traction unit platform. Use caution when drilling as there are hoses and cables under platform.



### Figure 1

2. Secure hoses to under side of platform with clamp, (2) brackets, capscrews and nuts. Position brackets to fit contour of hoses and platform.

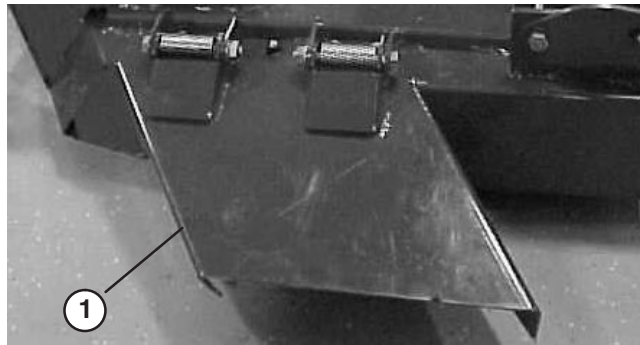


## Figure 2

1. Clamp
2. Bracket (2)

### GRASS DEFLECTOR (Fig. 3)

- 3. Remove shipping bands allowing deflector to be lowered.**



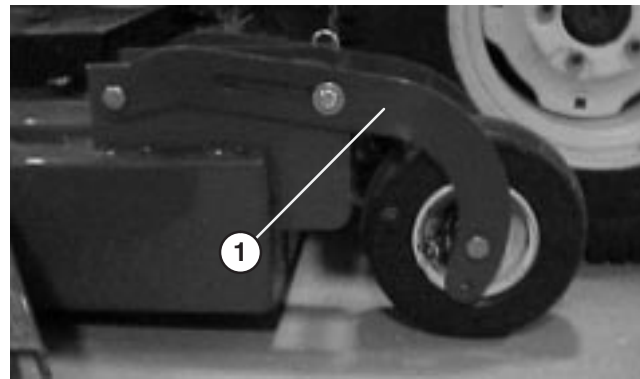
### Figure 3

1. grass Deflector

## MOUNT REAR CASTOR WHEELS (Fig. 4)

The rear castor wheels are shipped secured upside down to deck brackets.

1. Remove capscrew and locknut securing front of rear castor pivot to deck bracket.



### Figure 4

1. Rear castor pivot arm

2. Turn pivot right side up and secure front of castor pivot arm to front of deck bracket with capscrew and locknut removed.

- 3.** Align the pivot arm holes with selected height-of-cut bracket holes in the deck frame, install clevis pin and secure with hairpin cotter.

4. Repeat procedure on other castor wheel assembly.

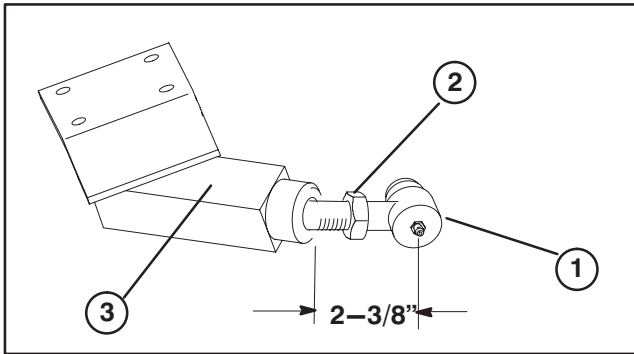
## CONNECT RIGHT HAND PUSH ARM TO CUTTING UNIT (Fig. 5- 6)

**Note:** Ball joints are shipped with traction unit.

1. Thread a jam nut fully onto ball joint.
2. Thread ball joint into push arm adapter until a dimension of 2—3/8" from end of adapter to center of ball joint is attained. Do not tighten jam nut.



# SET-UP INSTRUCTIONS



**Figure 5**

1. Ball joint
2. Jam nut
3. Push arm adapter

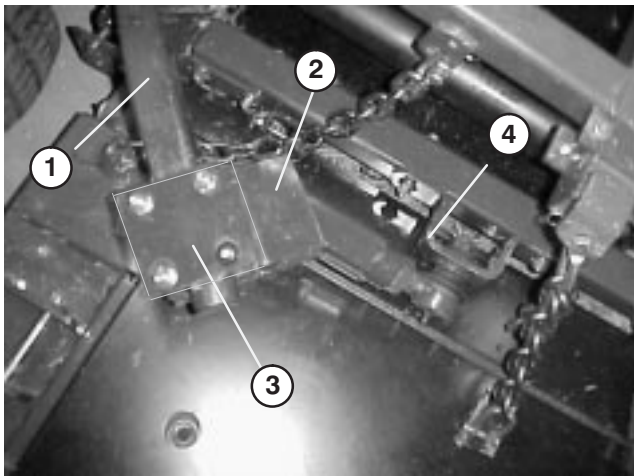
3. Remove (2) flange head capscrews and flange nuts securing right hand ball joint mount to castor arm. Remove ball joint mount from castor arm.

4. Install ball joint to right hand ball joint mount with a castle nut and cotter pin (Fig. 6).

5. Loosely mount push arm adapter to bottom of right push arm with a push arm bracket and (4) capscrews, flat washers and flange head locknuts. Push arm bracket to be positioned approximately 1" from end of right push arm.

**Note:** Push arm plate to be positioned on top of push arm. Push arm adapter is mounted to under side of push arm.

6. Move cutting unit into position in front of traction unit.



**Figure 6**

1. R.H. Push Arm
2. Push arm adapter
3. Push arm plate
4. Ball Joint Mount



## WARNING

Since the right hand push arm is spring loaded to about 100 pounds, a helper is needed to push the arm down. Sudden release of the push arm could cause injury.

7. Have a helper carefully push down on the right push arm until holes in ball joint mount line up with holes in castor arm. Immediately slide a 4 x 4 in. block of wood between top of push arm and underside of chassis.

8. Secure ball joint mount to castor arm with (2) flange head capscrews and flange nuts previously removed.

**Note:** Capscrew heads to be positioned on inside of castor arm.

9. Tighten large jam nut securing ball joint to push arm adapter (Fig. 5). When tightening jam nut, hold ball joint straight to permit proper oscillation during raising and lowering of cutting unit. Carefully remove wood block holding push arm down.

## CONNECT LEFT HAND PUSH ARM TO CUTTING UNIT (Fig. 7– 8)

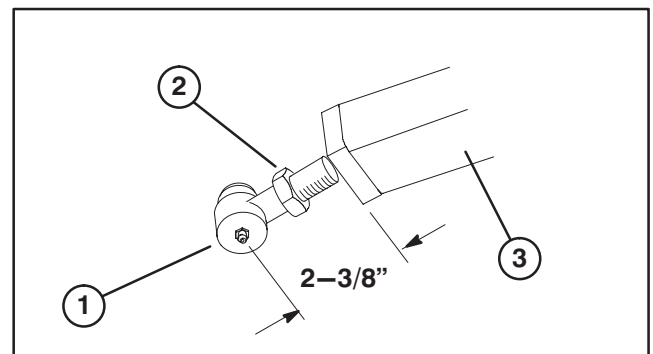


## WARNING

Since the left hand push arm is spring loaded to about 150 pounds, a helper is needed to push the arm down. Sudden release of the push arm could cause injury.

1. Thread a jam nut fully onto ball joint.

2. Thread ball joint into left push arm until a dimension of 2–3/8" from end of push arm to center of ball joint is attained. Do not tighten jam nut.



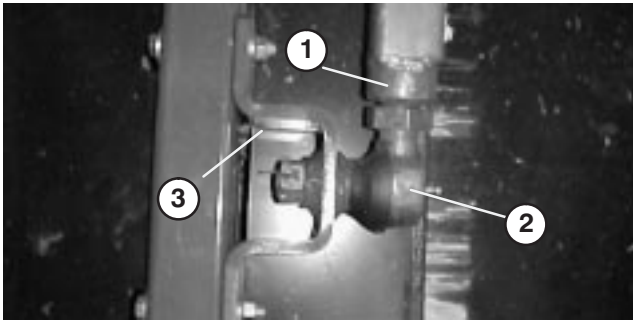
**Figure 7**

1. Ball joint
2. Jam nut
2. Left push arm

# SET-UP INSTRUCTIONS

3. Remove (2) flange head capscrews and flange nuts securing left hand ball joint mount to castor arm. Remove ball joint mount from castor arm.

4. Install ball joint to left hand ball joint mount with a castle nut and cotter pin.



**Figure 8**

- 1. L.H. Push Arm
- 2. Ball joint
- 3. Ball Joint Mount

5. Have a helper carefully push down on the push arm until holes in ball joint mount line up with holes in castor arm. Immediately slide a 4 x 4 in. block of wood between top of push arm and underside of chassis.



## WARNING

**Make sure the wooden block does not slip out accidentally. Sudden release of the push arm could cause injury.**

6. Secure ball joint mount to castor arm with flange head capscrews and flange nuts previously removed.

**Note:** Flange head capscrew heads to be positioned on inside of castor arm.

7. Tighten large jam nut securing ball joint to push arm. When tightening jam nut, hold ball joint straight to permit proper oscillation during raising and lowering of cutting unit. Carefully remove wood block holding push arm down.

**Note:** Position deck so there is a 2" gap between front of traction unit tires and rear of deck (Fig.).



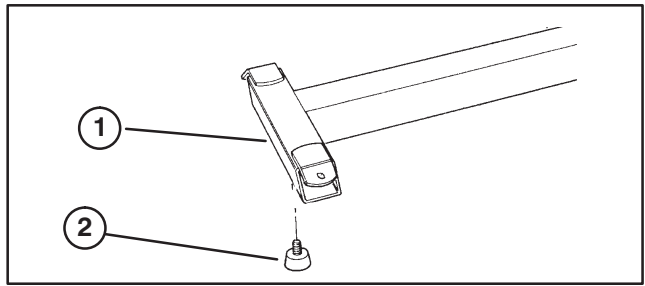
**Figure 9**

8. Tighten fasteners securing right push arm adapter to right push arm.

## MOUNT FRONT LIFT ARM (Fig. 10 & 11)

1. Remove rubber bumper from bottom of traction T-bar.

10

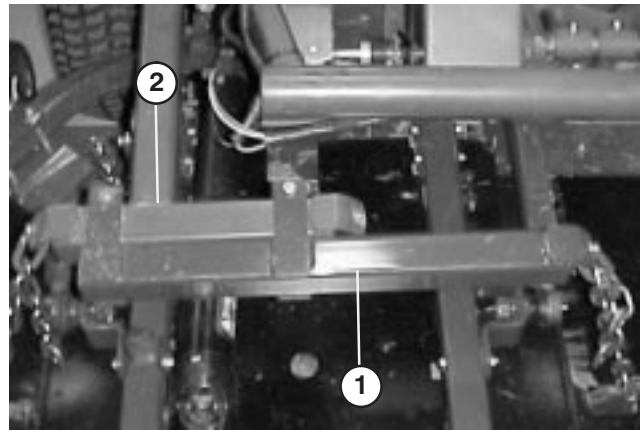


**Figure 10**

- 1. Traction T-bar
- 2. Rubber bumper

2. Slide front lift arm onto traction unit t-bar, positioning as shown in figure 11.

3. Secure front lift arm to t-bar with (2) capscrews and locknuts.

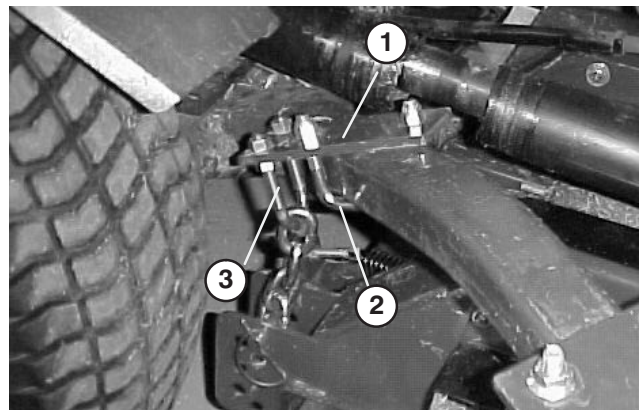


**Figure 11**

- 1. Front lift arm
- 2. Traction unit T-bar

## MOUNT REAR LIFT BRACKET (Fig. 12-)

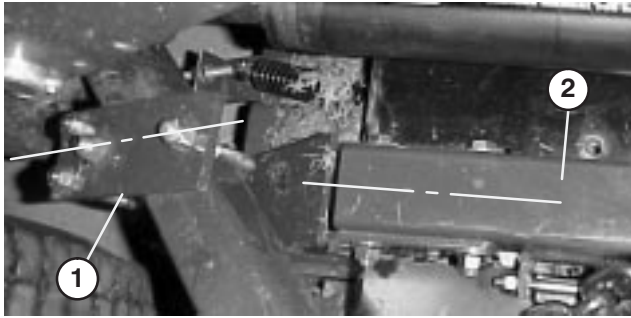
1. Loosely mount rear lift bracket to right push arm with square U-bolt, (2) nuts and flange nuts. Bracket to be positioned on push arm so it is centered and parallel to castor arm.



**Figure 12**

- 1. Lift bracket
- 2. Square u-bolt
- 3. U-bolt

# SET-UP INSTRUCTIONS



**Figure 13**

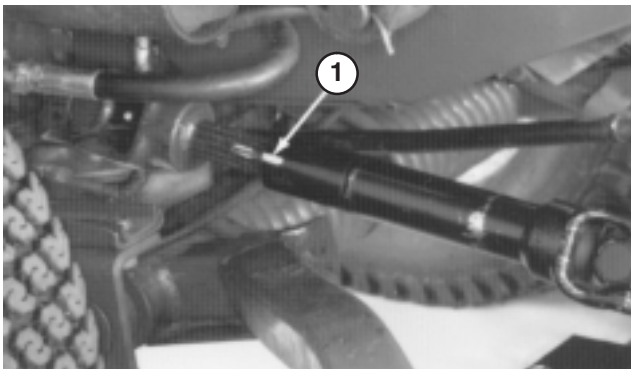
- 1. Lift bracket
- 2. Castor arm

2. Hook H.O.C. chain onto remaining U-bolt.
3. Thread a hex nut onto each end of U-bolt.
4. Loosely mount U-bolt and H.O.C. chain to rear lift bracket (2) nuts and (2) flange nuts
5. Mount height-of-cut chain to 2" height-of-cut hole with clevis pin and hair pin cotter.
6. Position rear castors in 2" height-of-cut.
7. Adjust nuts on U-bolt until rear of deck is parallel to floor (Distance from floor to bottom rear edge of all three deck chambers must be equal).

## INSTALL DRIVE SHAFT TO TRACTION UNIT

**NOTE: To ease installation of PTO shaft, remove right traction tire.**

1. Slide smaller yoke end of drive shaft onto traction unit PTO shaft while aligning mounting holes. Secure with roll pin.



**Figure 14**

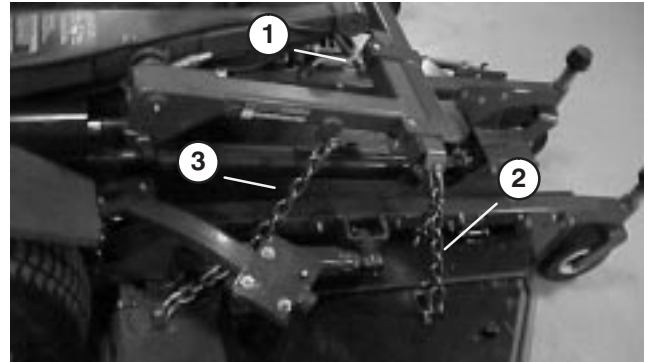
- 1. Drive shaft

## INSTALL LIFT CHAINS (Fig. 15)

1. Connect lift chains to lift arm and cutting unit chain brackets with (6) shackles, (3/8 x 1-1/2" lg.) shackle pins and (1/8 x 3/4" lg.) cotter pins. To ensure cutting unit lifts properly, secure chains to the following links when connecting:

Front Left — 8th link  
Front Right — 8th link  
Rear — 14th link (All links)

Check operation to ensure all chains lift deck tight against stops when lift arm is raised.



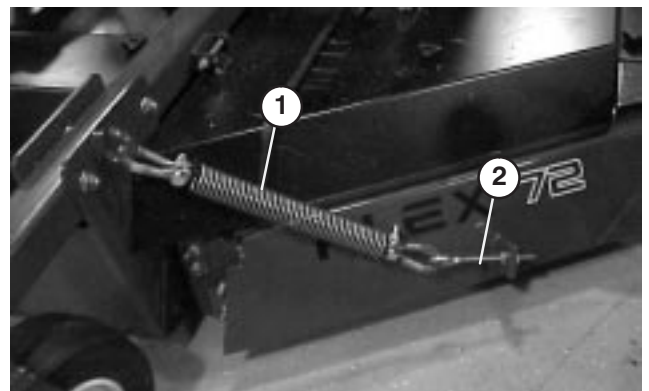
**Figure 15**

- 1. Front Left Lift Chain
- 2. Front Right Lift Chain
- 3. Rear Lift Chain

## ADJUST COUNTER BALANCE SPRING

(Fig. 16)

1. Tighten nuts on adjusting rod until there is equal weight on castor wheels of left and left center chambers.



**Figure 16**

- 1. Counter balance spring
- 2. Adjusting rod

## GREASE CUTTING UNIT

Before the cutting unit is operated, it must be greased to ensure proper lubricating characteristics: refer to Lubrication, page 13. Failure to properly grease the cutting unit will result in premature failure of critical parts.

# SET–UP INSTRUCTIONS

## INSTALL REAR WEIGHT

GROUNDMASTER 300 Series Traction Units comply with ANSI B71.4–1990 Standard when equipped with rear weight. Use chart below to determine combinations of weight required. Order parts from your local Authorized Toro Distributor.

<b>Traction Unit Description</b>	<b>Rear Weight Required</b>	<b>Weight Part Number</b>	<b>Weight Description</b>	<b>Qty.</b>
<b>Groundsmaster 325–D (30788 / 30739)</b>	<b>140 lb.</b>	<b>24–5780</b>	<b>Rear Weight Kit (includes two 35 lb. weights and mounting hardware)</b>	<b>2</b>
<b>Groundsmaster 345 (30789)</b>	<b>175 lb.</b>	<b>24–5780</b>	<b>Rear Weight Kit (includes two 35 lb. weights and mounting hardware)</b>	<b>2</b>
		<b>24–5790</b>	<b>&amp; Rear Weight Kit (includes one 35 lb. weight and mounting hardware)</b>	<b>1</b>
<b>Groundsmaster 325–D 4 Wheel Drive (30795 / 30741)</b>	<b>70 lb.</b>	<b>24–5780</b>	<b>Rear Weight Kit (includes two 35 lb. weights and mounting hardware)</b>	<b>1</b>

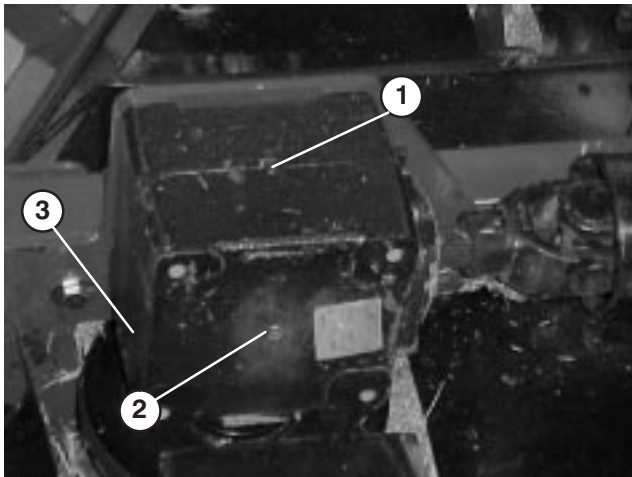


# BEFORE OPERATING

## CHECK LUBRICANT IN GEAR BOX

The gear box is designed to operate on SAE 80–90 wt. gear lube. Although the gear box is shipped with lubricant from the factory, check the level before operating the cutting unit.

1. Position the machine and cutting unit on a level surface.
2. Remove check plug from side of gear box and make sure lubricant is up to bottom of hole. If level of lubricant is low, remove fill plug on top of gear case and add enough lubricant to bring it up to bottom of hole in side.



**Figure 17**

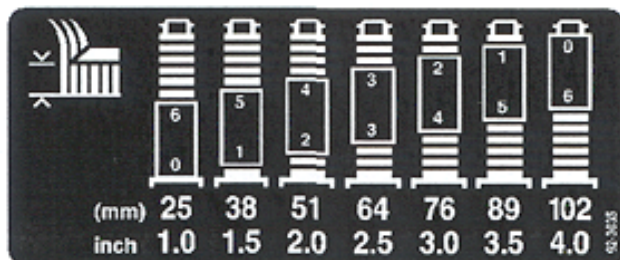
1. Filler Plug
2. Check Plug
3. Drain Plug

## ADJUSTING HEIGHT – OF – CUT

The height–of–cut is adjustable from 1 to 4 inches in 1/4 inch increments.

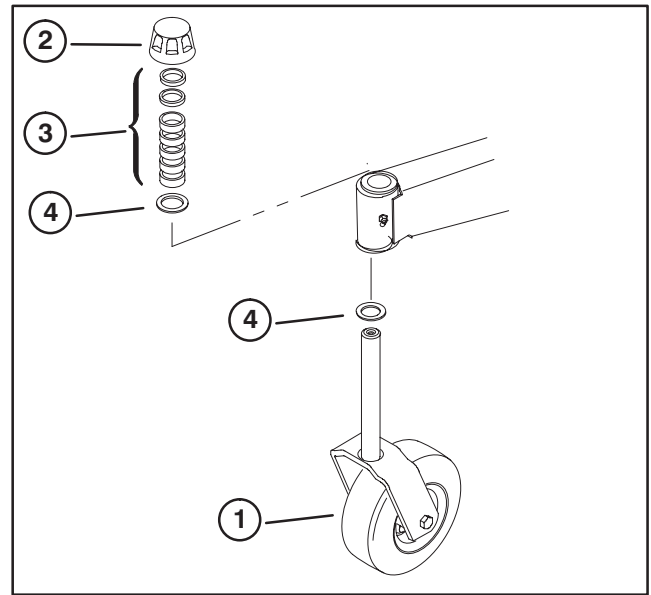
1. Start the engine and raise the cutting unit so height–of–cut can be changed. Stop engine after cutting unit is raised.

### FRONT CASTOR WHEELS



**Figure 18**

1. Remove H.O.C. cap from spindle shaft and slide spindle out of front castor arm. Slide spacers onto spindle shaft to get desired height–of–cut.

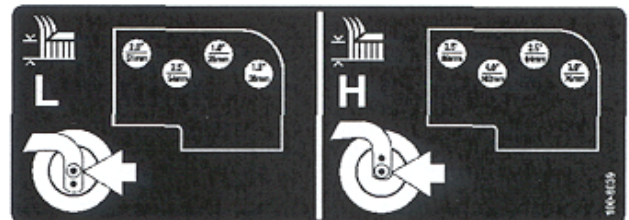


**Figure 19**

1. Front castor wheel
2. H.O.C. Cap
3. Spacer
4. Washer

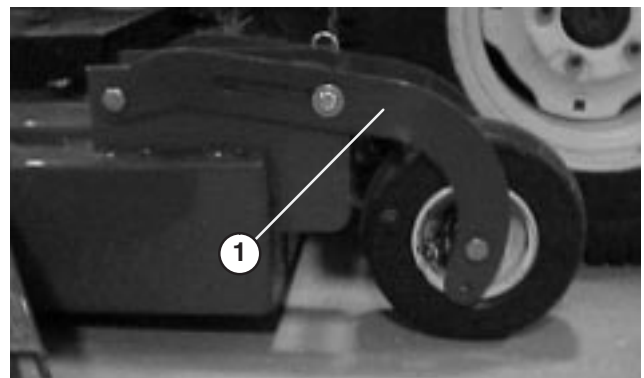
2. Push castor spindle through front castor arm install remaining spacers onto spindle and install HOC cap to secure assembly.

### REAR CASTOR WHEELS



**Figure 20**

1. Remove hairpin cotter and cotter pin securing rear castor pivot arm to deck bracket.



**Figure 21**

1. Rear Castor Pivot

2. Align the pivot arm holes with selected height–of–cut bracket holes in the deck frame, install cotter pin and secure with hairpin cotter.

# BEFORE OPERATING

## REAR DECK CHAIN

1. Remove hair pin cotter and clevis pin securing height-of-cut chain to chamber bracket.
2. Mount height-of-cut chain to desired height-of-cut hole with clevis pin and hair pin cotter.

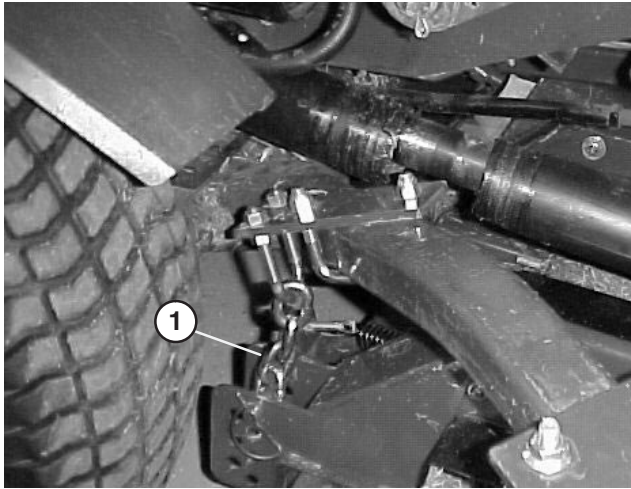


Figure 22

1. H.O.C. Chain

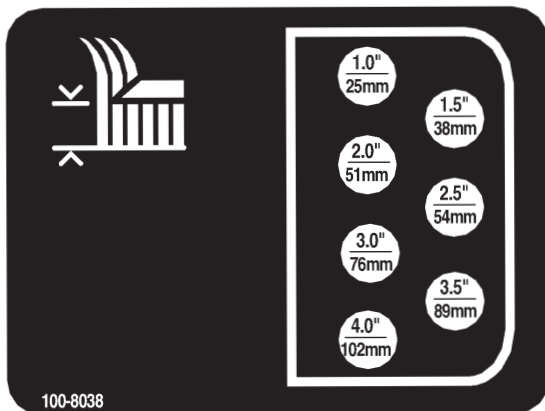


Figure 23

## CHECK TIRE PRESSURE

Ensure that the air pressure in the front and rear castor wheels is 40 psi (276 kPa).

**IMPORTANT:** Maintain even pressure in all tires to ensure a good quality-of-cut and proper machine performance. **Do not under-inflate.**

## ADJUST SKID

Skid, on right side of cutting unit, should be located in upper holes for 1 and 1-1/2 inch heights-of-cut and lower holes for 2 to 4 inch heights-of-cut.

1. Adjust skid by removing flange nuts, positioning as desired and re-installing flange nuts.

## ADJUST ROLLER

Anti-scalp rollers should be located in upper holes for 1 and 1-1/2 inch heights-of-cut and lower holes for 2 to 5 inch heights-of-cut. Five rollers are located on the deck, three under the main deck and one on each wing.

1. Adjust anti-scalp rollers by removing screw securing roller shaft to deck, positioning roller as desired and reinstalling shaft with screw.



# OPERATING INSTRUCTIONS

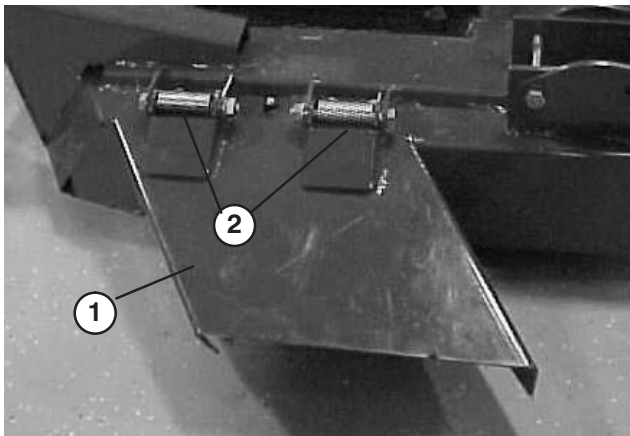
## GRASS DEFLECTOR (Fig. 24)



### WARNING

The grass deflector (Fig. 24) is a safety device that diverts grass and other foreign objects being discharged downward. WE STRONGLY RECOMMEND THAT THE DEFLECTOR BE IN ITS NORMAL OPERATING POSITION WHENEVER THE CUTTING UNIT IS ENGAGED. NEVER OPERATE CUTTING UNIT WITH THE DEFLECTOR REMOVED FROM THE CUTTING UNIT OR IT TIED/BLOCKED IN A RAISED POSITION. SINCE THE BLADES COULD THEN THROW DEBRIS A CONSIDERABLE DISTANCE WITH SUFFICIENT FORCE TO CAUSE PERSONAL INJURY OR DAMAGE TO PROPERTY. If the grass deflector is damaged, repair or replace the affected part(s).

**Note:** The deflector is spring loaded into its downward normal operating position, but the operator can temporarily swing it out of the way to facilitate loading in a trailer or when otherwise necessary.



**Figure 24**

1. Grass deflector
2. Springs

## OPERATING TIPS

**1. MOW WHEN GRASS IS DRY**—Mow either in the late morning to avoid the dew, which causes grass clumping or in late afternoon to avoid the damage that can be caused by direct sunlight on the sensitive, freshly mowed grass.

**2. SELECT THE PROPER HEIGHT—OF—CUT SETTING TO SUIT CONDITIONS** — Remove approximately one inch or no more than 1/3 of the grass blade when cutting. In exceptionally lush and dense grass you may have to raise your height—of—cut setting another notch. When cutting in 1" or 1-1/2" height—of—cut, add a second washer between rear castor forks and bottom of castor arm housings to increase blade rake.

**3. MOWING IN EXTREME CONDITIONS** — Air is required to cut and recut grass clippings in mower housing, so do not set height—of—cut too low or totally surround housing by uncut grass. Always try to have one side of the mower housing free from uncut grass, allowing air to be drawn into housing. When making an initial cut thru center of uncut area, operate machine slower and back up if mower starts to clog.

**4. ALWAYS START MOWING WITH SHARP BLADES** — A sharp blade cuts cleanly and without tearing or shredding the grass blades like a dull blade. Tearing and shredding causes the grass to turn brown at the edges which impairs growth and increases susceptibility to diseases. Make sure blade is in good condition and a full sail is present.

**5. CHECK CONDITION OF DECK** — Make sure cutting chambers are in good condition. Straighten any bends in chamber components to ensure correct blade tip/chamber clearance.

**CAUTION:** This product may exceed noise levels of 85 dB(A) at the operator position. Ear protectors are recommended for prolonged exposure to reduce the potential of permanent hearing damage.

**6. STOPPING** — If forward motion has to be stopped while cutting, a clump of grass clippings may be deposited on lawn. Follow this procedure for stopping while cutting:

- A. With deck engaged, move onto a previously cut area.
- B. Shift to neutral, move throttle control lever to SLOW position and rotate ignition key to OFF.

**7. AFTER OPERATING** — To ensure optimum performance, clean underside of mower housing, especially around inserts (kickers) after each use. If residue is allowed to build up in mower housing and on inserts, cutting performance will decrease.

# LUBRICATION

## GREASE BEARINGS, BUSHINGS AND GEAR BOX (Fig. 25–30 )

The cutting unit must be lubricated regularly. If machine is operated under normal conditions, lubricate castor bearings and bushings with No. 2 general purpose lithium base grease or molybdenum base grease, after every 8 hours of operation or daily, whichever comes first.

1. The cutting unit has bearings and bushings that must be lubricated, and these lubrication points are: front castor spindle bushings (2) (Fig. 25); front castor wheel bearings (4) (Fig. 25); rear castor wheel bearings (2) (Fig. 26); blade spindle bearings (3) (Fig. 27); right and left push arm ball joints (Fig. 27); drive shaft (3) (Fig. 27) idler arm pivots (3) (Fig. 28); and deck pivot pins (4) (Fig. 29)

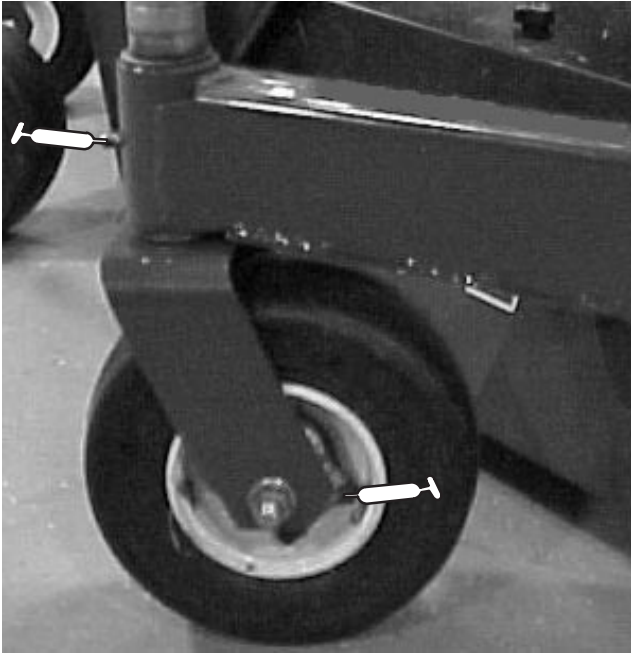


Figure 25

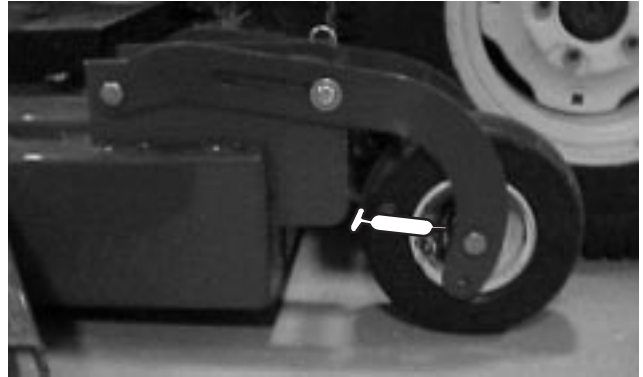


Figure 26

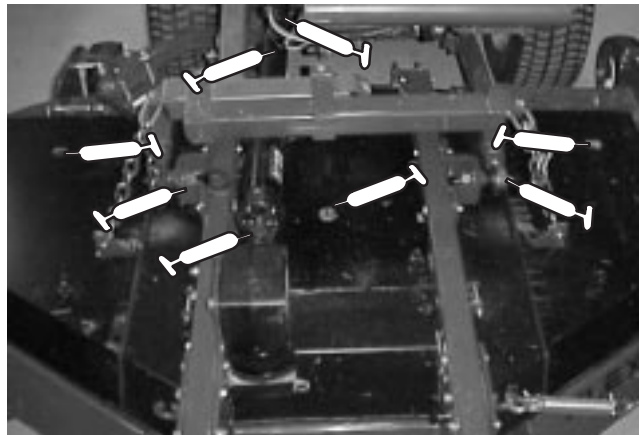


Figure 27

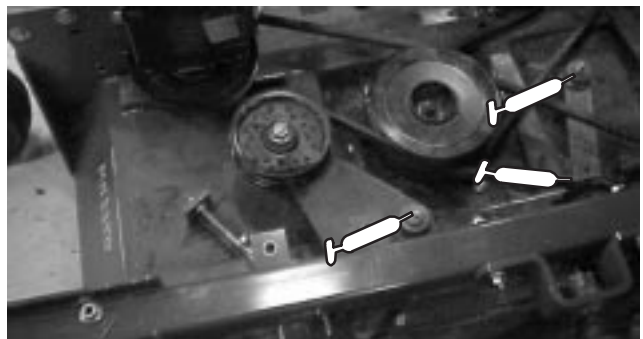
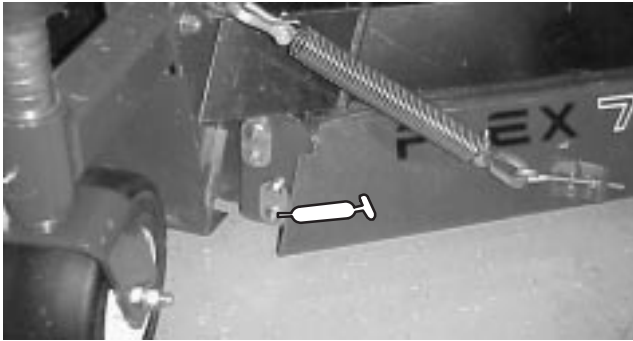


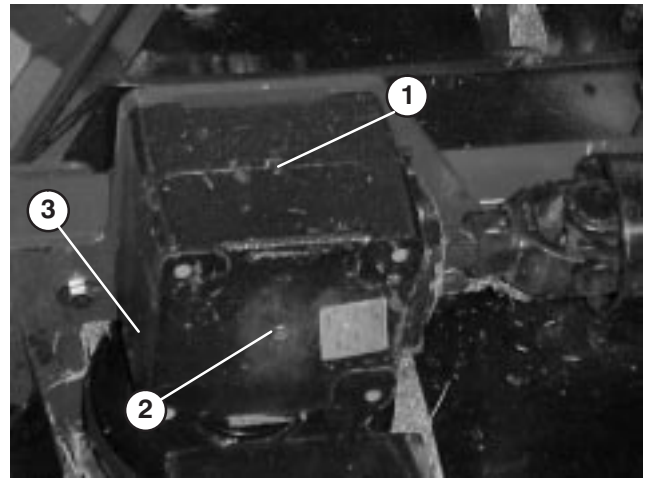
Figure 28

# LUBRICATION



**Figure 29**

2. Position the machine and cutting unit on a level surface and lower cutting unit. Remove check plug from side of gear box (Fig. 30) and make sure lubricant is up to bottom of hole. If level of lubricant is low, remove fill plug on top of gear case and add SAE 80–90 wt. gear lube until level is up to bottom of hole in side.

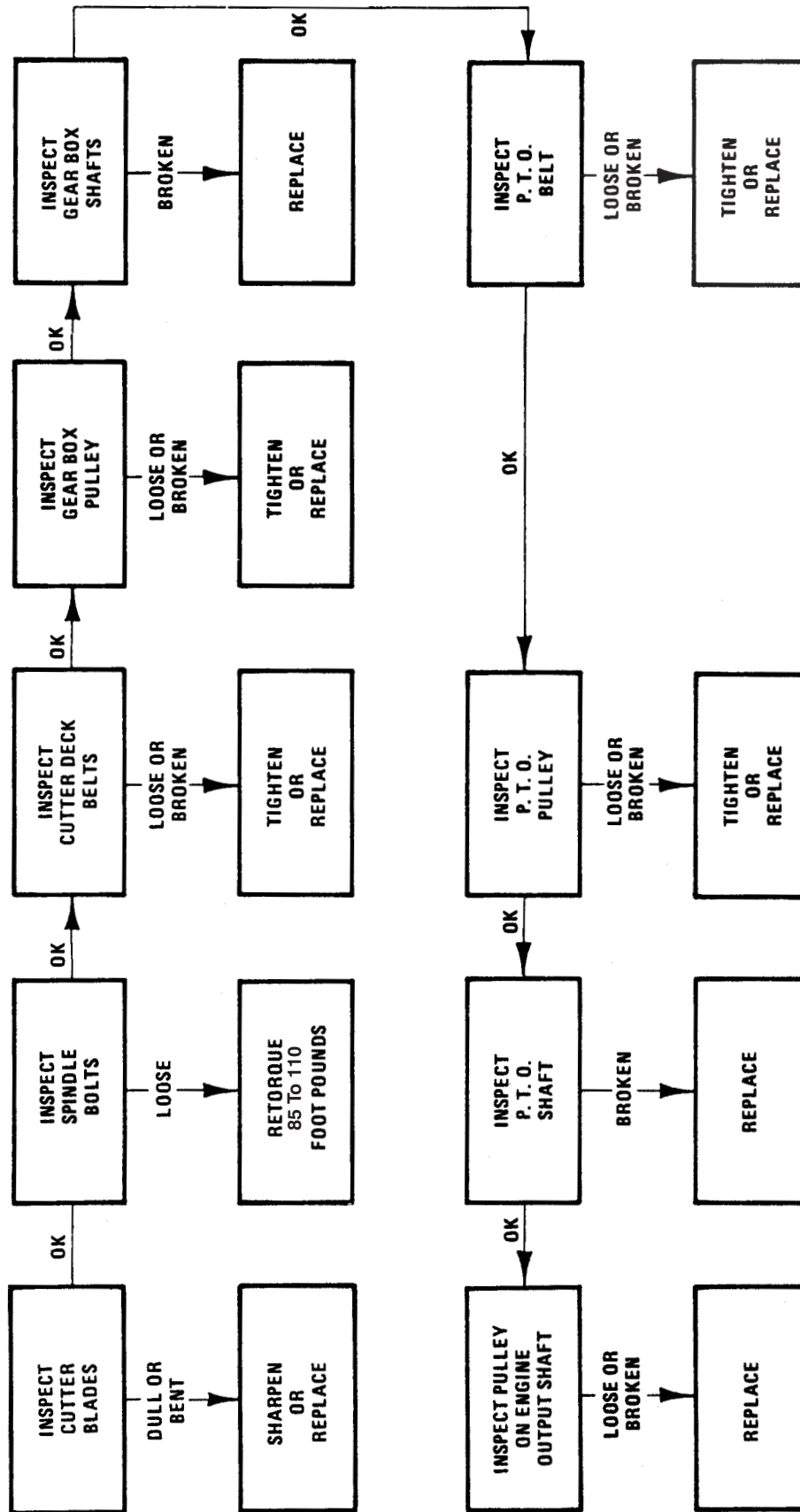


**Figure 30**

- 1. Filler Plug
- 2. Check Plug
- 3. Drain Plug

# MAINTENANCE TROUBLE SHOOTING

**UNIT WILL NOT CUT OR CUTS POORLY**



# MAINTENANCE



## CAUTION

**To prevent accidental starting of the engine, while performing maintenance, shut engine off and remove key from ignition switch.**

### SEPARATING CUTTING UNIT FROM TRACTION UNIT

1. Position machine on level surface, lower cutting unit to floor, shut engine off and engage parking brake.
2. Remove self tapping screws securing shield to top of cutting unit and set shield aside.
3. Drive out roll pin securing drive shaft yoke to input shaft of gear box. Loosen capscrews and locknuts and slide yoke off input shaft. If traction unit will be used without the cutting unit, drive roll pin out of yoke at traction unit PTO shaft and remove entire drive shaft from traction unit.



## DANGER

**Do not start the engine and engage the PTO lever when PTO shaft is not connected to gear box on cutting unit. If engine is started and PTO shaft is allowed to rotate, serious injury could result.**

4. Disconnect cotter pins and clevis pins securing lift chains to lift arms.



## WARNING

**Since the right hand push arm is spring loaded to about 100 pounds and the left hand push arm is spring loaded to about 150 pounds, a helper is needed to push the arm down. Sudden release of the push arm could cause injury.**

5. Have a helper push down on the right push arm while you remove the flange head capscrews and locknuts securing the ball joint mount to castor arm on cutting unit. Now the helper can carefully allow push arm to move upward, which will gradually release the 100 pounds of spring load.
6. Have a helper push down on the left push arm while you remove the flange head capscrews and locknuts securing the ball joint mount to castor arm on cutting unit. Now the helper can carefully allow push arm to move upward, which will gradually release the 150 pounds of spring load.
7. Roll the cutting unit away from the traction unit.

### MOUNTING CUTTING UNIT TO TRACTION UNIT

1. Position machine on a level surface and shut engine off.
2. Move cutting unit into position in front of traction unit.



## WARNING

**Since the right hand push arm is spring loaded to about 100 pounds and the left hand push arm is spring loaded to about 150 pounds, a helper is needed to push the arm down. Sudden release of the push arm could cause injury.**

3. Have a helper carefully push down on the right push arm until holes in ball joint mount line up with holes in castor arm.
4. Secure ball joint mount to castor arm with flange head capscrews and flange nuts. Capscrew heads to be positioned to inside of castor arm.
5. Have a helper carefully push down on the left push arm until holes in ball joint mount line up with holes in castor arm. Immediately slide a 4 x 4 in. block of wood between top of push arm and underside of chassis



## WARNING

**Make sure the wooden block does not slip out accidentally. Sudden release of the push arm could cause injury.**

6. Secure ball joint mount to castor arm with flange head capscrews and flange nuts. capscrew heads to be positioned to inside of castor arm. Chain bracket to be mounted in forward set of holes.
7. Carefully remove wood block holding push arm down.
8. Line up holes in yoke and input shaft of gear box. Slide yoke onto shaft and secure together with a roll pin and (2) 5/16 – 18 x 1–3/4” lg. capscrews and 5/16 – 18 locknuts.

### ADJUSTING DRIVE BELTS (Fig. 31 )

The blade drive belts are tensioned by the spring loaded idlers, are very durable. However, after many hours of use, the belts will stretch and will need adjusting.

1. Lower cutting unit to the shop floor. Remove belt covers from top of cutting unit and set covers aside.
2. Adjust spring tensioning rods until 10 lbs tension is achieved for side belts and 30 lbs tension for center gear box belt.



# MAINTENANCE

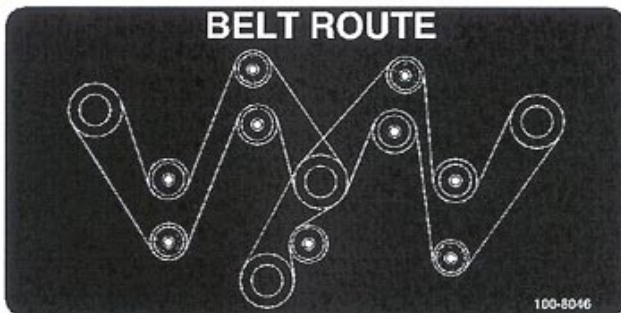


**Figure 31**  
1. Spring tensioning rod (3)

## REPLACING DRIVE BELTS

The blade drive belts, tensioned by the spring loaded idlers, are very durable. However, after many hours of use, the belts will show signs of wear. Signs of a worn belt are: squealing when belt is rotating, blades slipping when cutting grass, frayed edges, burn marks and cracks. Replace the belt if any of these conditions are evident.

1. Lower cutting unit to the shop floor. Remove belt covers from top of cutting unit and set covers aside.
2. To replace gear box belt, loosen spring tension rod and remove belt. Retention new belt to 30 lbs. Refer to Figure 32 for belt routing.



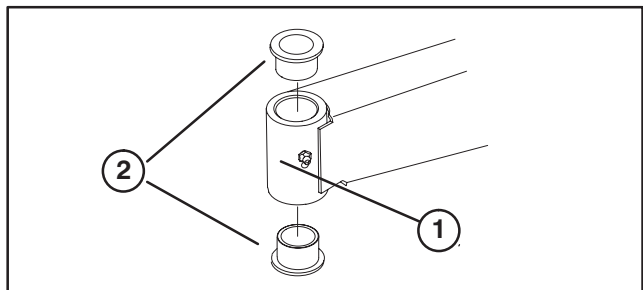
**Figure 32**

3. To replace wing belts, loosen spring tension rod and remove gear box belt.
4. Pull spring loaded idler pulley away from belt, with hand, to relieve belt tension and remove belt. Retention new belts to 10 lbs. Refer to Figure 32 for belt routing.
8. Reinstall belt covers.

## SERVICING FRONT BUSHINGS IN CASTOR ARMS

The castor arms have bushings pressed into the top and bottom of the tube and after many hours of operation, the bushings will wear. To check the bushings, move castor fork back and forth and from side to side. If castor spindle is loose inside the bushings, bushings are worn and must be replaced.

1. Raise cutting unit so wheels are off floor and block it so it cannot fall accidentally.
2. Remove tensioning cap, spacer(s) and thrust washer from top of castor spindle.
3. Pull castor spindle out of mounting tube. Allow thrust washer and spacer(s) to remain on bottom of spindle.
4. Insert pin punch into top or bottom of mounting tube and drive bushing out of tube. Also drive other bushing out of tube. Clean inside of tubes to remove dirt.



**Figure 33**  
1. Front Castor Arm Tube  
2. Bushings

5. Apply grease to inside and outside of new bushings. Using a hammer and flat plate, drive bushings into mounting tube.
6. Inspect castor spindle for wear and replace it if damaged.
7. Push castor spindle through bushings and mounting tube. Slide thrust washer and spacer(s) onto spindle. Install tensioning cap on castor spindle to retain all parts in place.

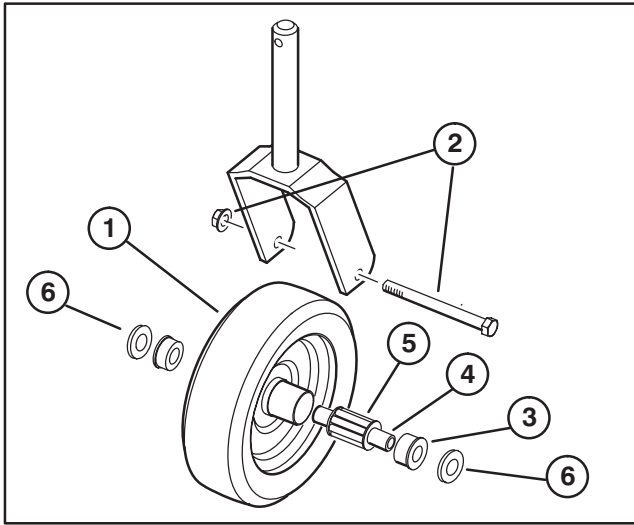
## SERVICING CASTOR WHEELS AND BEARINGS

The castor wheel rotates on a high-quality roller bearing and is supported by a spanner bushing. Even after many hours of use, provided that the bearing was kept well-lubricated, bearing wear will be minimal. However, failure to keep bearing lubricated will cause rapid wear. A wobbly castor wheel usually indicates a worn bearing.



# MAINTENANCE

1. Remove locknut from capscrew holding castor wheel assembly between castor fork. Grasp castor wheel and slide capscrew out of fork.
2. Pull spanner bushing out of wheel hub.



**Figure 34**

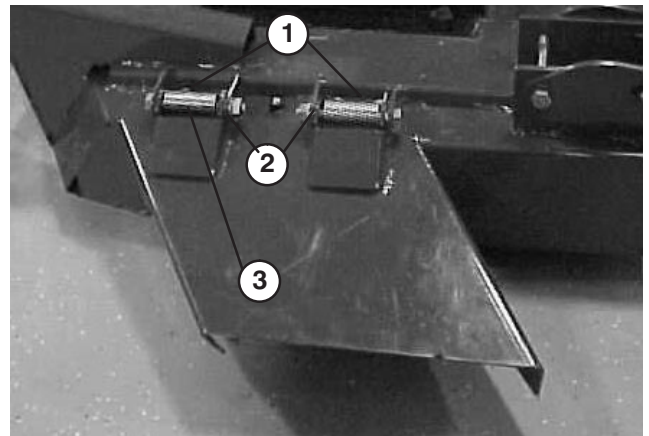
- |                       |                    |
|-----------------------|--------------------|
| 1. Castor wheel       | 4. Spanner Bushing |
| 2. Capscrew & Locknut | 5. Roller Bearing  |
| 3. Bushing (2)        | 6. Washer (2)      |

3. Remove bushing from wheel hub and allow bearing to fall out. Remove bushing from opposite side of wheel hub.
4. Check the bearing, spanner and inside of wheel hub for wear. Replace defective parts.
5. To assemble the castor wheel, push bushing into wheel hub. Slide bearing into wheel hub. Push other bushing into open end of wheel hub to captivate the bearing inside the wheel hub.
6. Carefully slide spanner through the bushings and the wheel hub.
7. Install castor wheel assembly between castor fork and secure in place with capscrew, washers and locknut.
8. Lubricate castor wheel bearing through grease fitting, using No. 2 general purpose lithium base grease.

## REPLACING GRASS DEFLECTOR (Fig. 35)

1. Position machine on a level surface, raise cutting unit, engage parking brake, be sure traction pedal is in neutral position, PTO lever in OFF position, shut engine OFF and remove key from switch. Block cutting unit to prevent it from falling accidentally.

2. Remove two capscrews, locknuts and springs securing deflector mounts to pivot brackets.
3. To remove the pivot brackets, remove carriage bolts and nuts.
4. Reinstall pivot brackets on top of discharge opening with carriage bolts and nuts. Head of carriage bolts must be on inside of cutting unit.
5. Position deflector mounts on pivot brackets and secure parts together with capscrews, locknuts and springs. Both locknuts must face each other. Tighten locknuts until they are flush against deflector pivots.



**Figure 35**

- |                     |
|---------------------|
| 1. Deflector mounts |
| 2. Pivot brackets   |
| 3. Pivot springs    |

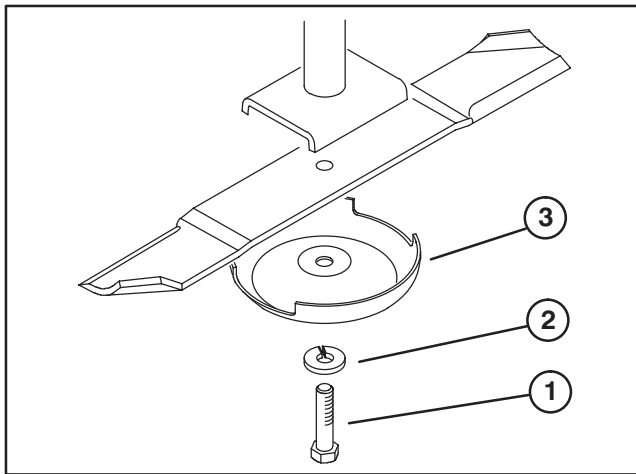
6. Lift deflector and allow it to drop to check spring tension. Deflector must be held firmly in full downward position by spring tension. Correct if necessary.

## REMOVING CUTTER BLADE (Fig. 36)

The blade must be replaced if a solid object is hit, the blade is out-of-balance or if the blade is bent. Always use genuine TORO replacement blades to be sure of safety and optimum performance. Never use replacement blades made by other manufacturers because they could be dangerous.

1. Raise cutting unit to highest position, shut the engine off and engage the parking brake. Block cutting unit to prevent it from falling accidentally.
2. Grasp end of blade using a rag or thickly padded glove. Remove blade bolt, lockwasher, anti-scalp cup and blade from spindle shaft.

# MAINTENANCE



**Figure 36**

1. Blade bolt
2. Lockwasher
3. Anti-Scalp Cup

2. Install blade—sail facing toward cutting unit with anti-scalp cup, lockwasher and blade bolt. Tighten blade bolt to 85–110 ft-lb.

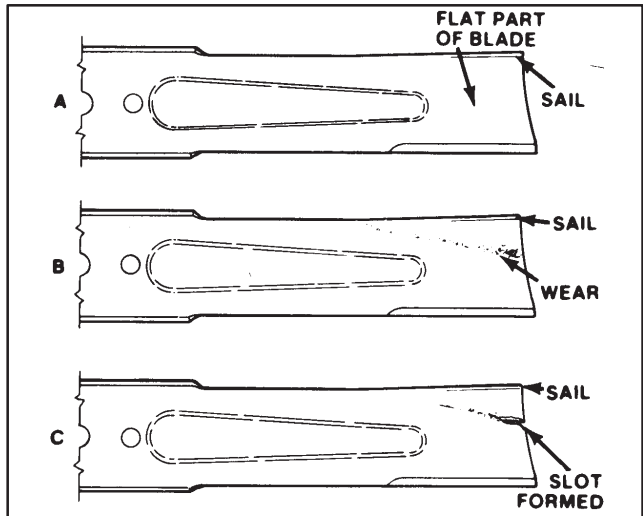


## WARNING

**Do not try to straighten a blade that is bent, and never weld a broken or cracked blade. Always use a new blade to ensure continued safety certification of the product.**

## INSPECTING AND SHARPENING BLADE

1. Raise cutting unit to highest position, shut the engine off and engage the parking brake. Block cutting unit to prevent it from falling accidentally.
2. Examine cutting ends of the blade carefully, especially where the flat and curved parts of the blade meet (Fig. 37–A). 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 machine. If wear is noticed (Fig. 37–B), replace the blade: refer to Removing Cutter Blade.



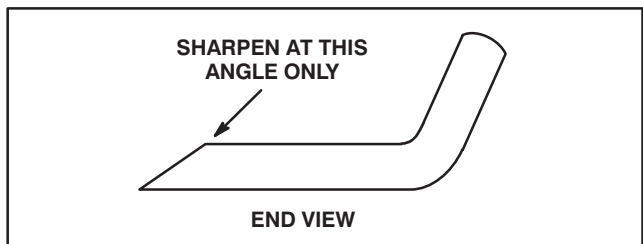
**Figure 37**



## DANGER

**If blade is allowed to wear, a slot will form between the sail and flat part of the blade (Fig. 37–C). 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.**

3. Inspect cutting edges of all blades. Sharpen the cutting edges if they are dull or nicked. Sharpen only the top of the cutting edge and maintain the original cutting angle to make sure of sharpness (Fig. 27). The blade will remain balanced if same amount of metal is removed from both cutting edges.



**Figure 38**

4. To check blade for being straight and parallel, lay blade on a level surface and check its ends. Ends of blade must be slightly lower than the center, and cutting edge must be lower than the heel of the blade. This blade will produce good quality of cut and require minimal power from the engine. By contrast a blade that is higher at the ends than the center, or if cutting edge is higher than the heel, the blade is bent or warped and must be replaced.
5. Install blade—sail facing toward cutting unit with anti-scalp cup, lockwasher and blade bolt. Tighten blade bolt to 85–110 ft-lb.

# MAINTENANCE

## CORRECTING CUTTING UNIT MISMATCH

If there is mismatch between the blades, the grass will appear streaked when it is cut. This problem can be corrected by making sure the blades are straight and all blades are cutting on the same plane.

1. Using a 3 foot long carpenters level, find a level surface on the shop floor.
2. Raise height—of—cut to the highest position: refer to Adjusting Height—Of—Cut.
3. Lower cutting unit onto flat surface. Remove covers from top of cutting unit.
4. Unhook spring from idler arm bracket to release belt tension.
5. Rotate blades until the ends face forward and backward. Measure from floor to front tip of cutting edge and remember this dimension. Then rotate same blade so opposite end is forward and measure again. The difference between dimensions must not exceed 1/8 of an inch. If dimension exceeds 1/8 of an inch, replace the blade because it is bent. Make sure to measure all blades.

6. Compare measurements of outer blades with the center blade. Center blade must not be more than 3/8 of an inch lower than the outer blades. If center blade is more than 3/8 of an inch lower than the outer blades, proceed to step 7 and add shims between spindle housing and bottom of cutting unit.

7. Remove capscrews, flatwashers, lockwashers and nuts from outer spindle in the area where shims must be added. To raise or lower the blade, add a shim, Part No. 3256—24, between spindle housing and bottom of cutting unit. Continue to check alignment of blades and add shims until tips of blades are within the required dimension.

**IMPORTANT: Do not use more than three shims at any one hole location. Use decreasing numbers of shims in adjacent holes if more than one shim is added to any one hole location.**

8. Hook spring onto idler arm bracket. Reinstall belt covers.

## IDENTIFICATION AND ORDERING

### MODEL AND SERIAL NUMBERS

The cutting deck has two identification numbers: a model number and a serial number. The two numbers are stamped into a plate on rear of the mower deck, under cover. In any correspondence concerning the mower, supply the model and serial numbers to ensure that correct information and replacement parts are obtained.

To order replacement parts from an authorized TORO Distributor, supply the following information:

1. Model and serial numbers of the machine.
2. Part number, description and quantity of parts desired.

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



## The Toro General Commercial Products Warranty

### A Two-Year Limited Warranty

#### Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant your 1996 or newer Toro Commercial Product ("Product") purchased after January 1, 1997, to be free from defects in materials or workmanship for two years or 1500 operational hours\*, whichever occurs first. Where a warrantable condition exists, we will repair the Product at no cost to you including diagnosis, labor, parts, and transportation. This warranty begins on the date the Product is delivered to the original retail purchaser.

\* Product equipped with hour meter

#### Instructions for Obtaining Warranty Service

You are responsible for notifying the Commercial Products Distributor or Authorized Commercial Products Dealer from whom you purchased the Product as soon as you believe a warrantable condition exists.

If you need help locating a Commercial Products Distributor or Authorized Dealer, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Toro Commercial Products Service Department  
Toro Warranty Company  
8111 Lyndale Avenue South  
Bloomington, MN 55420-1196  
612-888-8801  
800-982-2740  
E-mail: commercial.service@toro.com

#### Owner Responsibilities

As the Product owner, you are responsible for required maintenance and adjustments stated in your operator's manual. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim.

#### Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This express warranty does not cover:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, modified, or unapproved accessories.
- Product failures which result from failure to perform required maintenance and/or adjustments.
- Product failures which result from operating the Product in an abusive, negligent or reckless manner.
- Parts subject to consumption through use unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to, blades, reels, bedknives, tines, spark plugs, castor wheels, tires, filters, belts, etc.

- Failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, or chemicals, etc.
- Normal "wear and tear" items. Normal "wear and tear" includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.

#### Parts

Parts scheduled for replacement as required maintenance are warranted for the period of time up to the scheduled replacement time for that part.

Parts replaced under this warranty become the property of Toro. Toro will make the final decision whether to repair any existing part or assembly or replace it. Toro may use factory remanufactured parts rather than new parts for some warranty repairs.

#### General Conditions

Repair by an Authorized Toro Distributor or Dealer is your sole remedy under this warranty.

**Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. Except for the Emissions warranty referenced below, if applicable, there is no other express warranty. All implied warranties of merchantability and fitness for use are limited to the duration of this express warranty.**

Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations 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.

**Note regarding engine warranty:** The Emissions Control System on your Product may be covered by a separate warranty meeting requirements established by the U.S. Environmental Protection Agency (EPA) and/or the California Air Resources Board (CARB). The hour limitations set forth above do not apply to the Emissions Control System Warranty. Refer to the Engine Emission Control Warranty Statement printed in your operator's manual or contained in the engine manufacturer's documentation for details.

#### 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 Toro Warranty Company.