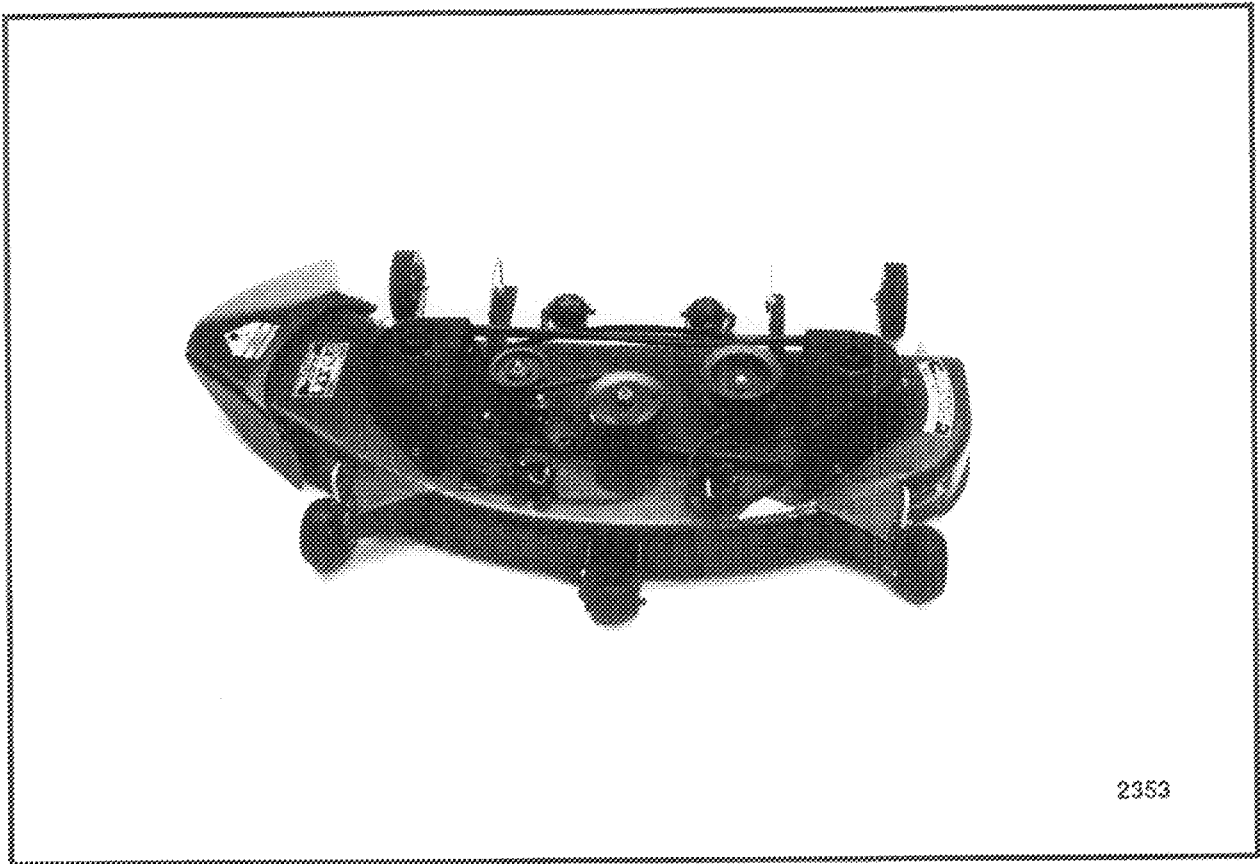




MODEL NO. 78260-3900001 & UP

**INSTALLATION  
INSTRUCTIONS**

**WHEEL HORSE®**  
48 in. (121.9 cm) Side Discharge Mower



# FOREWORD

Thank you for buying a high quality TORO product. To get the best performance from this product, operate and maintain it according to the instructions in this manual.

TORO also wants to stress the importance of safety. You and anyone else using or maintaining this product are strongly urged to read this manual, especially all the safety instructions.

Left and right side as referred to in this manual is viewed from behind the product looking in a forward direction.

DANGER, WARNING and CAUTION, used with the triangular safety alert symbol, highlight safety messages. Always read and understand these messages because they relate to personal injury and your safety.

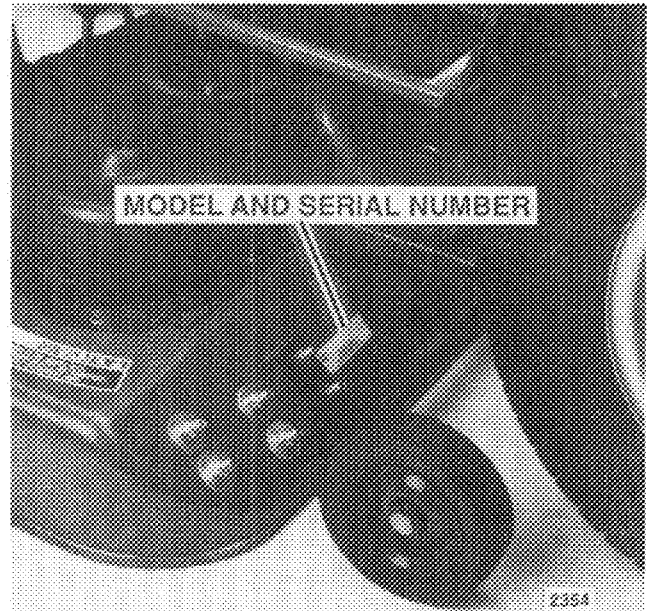
IMPORTANT messages refer to mechanical information and the possibility of damaging a part or parts of the product.

NOTE identifies general information worthy of special attention.

If you need help or have questions about your new TORO product, contact your local Authorized TORO Dealer. The Toro Dealer has a complete supply of replacement parts, a full line of accessories and a professional service staff to support you. Keep your Toro all Toro. Buy genuine Toro parts and accessories.

## MODEL AND SERIAL NUMBER

A Model and Serial Number identifies your TORO Wheel Horse attachment. These numbers should always be referred to when consulting with your dealer or factory concerning service, replacement parts, or questions you may have. For your reference, record numbers from Model and Serial Number plate.



Model and Serial Number Location

|  |
|--|
| <p><b>Model Number:</b> _____</p> <p><b>Serial Number:</b> _____</p> |
|--|

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# SAFETY OPERATING PRACTICES



This safety alert symbol means CAUTION 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.

Improper use or maintenance of the machine can result in injury. To reduce the potential for injury, comply with the following safety instructions.

## BEFORE OPERATING

1. Read and understand the contents of this Operator's Manual before operating the product. 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  
Bloomington, Minnesota 55420-1196

2. Do not allow children to operate the product. Do not allow adults to operate the product without proper instruction.

3. 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.

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

5. Do not operate product 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.

6. Fill fuel tank with gasoline before starting the engine. Avoid spilling gasoline. Since gasoline is flammable, handle it carefully.

- A. Use an approved gasoline 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 (25 mm) from top of the tank, not the filler neck.
- E. Wipe up any spilled gasoline.

7. Before attempting to start engine, engage parking brake, shift into neutral and disengage power to mower deck.

8. Start engine when parking brake is set, PTO is disengaged, and transmission is in neutral.

## 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. Using the product demands attention, and to prevent loss of control:

A. Operate product only in daylight or when there is good artificial light.

B. Watch for holes or other hidden hazards.

C. Do not drive close to a sand trap, ditch, creek or other hazard.

D. Reduce speed when making sharp turns and when turning on hillsides.

11. A mower grass deflector must always be installed and in down position on the side discharge cutting unit. If the cutting unit discharge area ever plugs, shut engine off before removing the obstruction.

12. Never raise a mower product while the blades are rotating.

13. If mower cutting blades strike a solid object or the machine vibrates abnormally, shut engine off. Remove high tension wire from spark plug to prevent possibility of accidental starting. Check cutting unit and traction unit for damage and defective 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.

14. Cut grass slopes carefully. Do not start, stop, or turn suddenly.

15. 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.

16. Before getting off seat or leaving mower unattended, shift transmission into NEUTRAL, apply parking brake, disengage PTO clutch and shut OFF engine.

## MAINTENANCE

17. Shut engine off and disconnect high tension wire from spark plug to prevent accidental starting of the engine when servicing, adjusting or storing the product.

18. If tractor and mower must be tipped to perform maintenance or an adjustment, drain gasoline from fuel tank and oil from crankcase.

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

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

21. 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.

22. 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.

23. Do not overspeed the engine by changing gover-

nor settings. To be sure of safety and accuracy, have an Authorized Toro Service Dealer check maximum engine speed with a tachometer.

24. Engine must be shut off before checking oil or adding oil to the crankcase.

25. 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 assure genuineness. Using unapproved replacement parts and accessories could void the warranty of The Toro Company.

## DECALS



# OPERATION



**Keep all shields and mower discharge chute in place. Never attempt to clear discharge areas or mower blades, or make any adjustments or repairs, without first disengaging PTO clutch and removing ignition key. Moving parts can cause serious bodily harm.**

**Discharge chute is a safety device that diverts grass and other foreign objects being discharged downward. We strongly recommend that the deflector be in the lowest position whenever the mower is used. Mower blades can throw debris a considerable distance with sufficient force to cause personal injury or damage to property. Never operate cutting unit with deflector removed from cutting unit or moved to open position. If the grass deflector is damaged, repair or replace the affected part(s) immediately.**

Before mowing grass become familiar with cutting height, adjustments, PTO clutch engagement and disengagement, tractor ground speed, engine speed and making turns. In a vacant unattended paved area, adjust mower height and operate tractor and mower after carefully reading contents of this operating section.

## ENGINE AND GROUND SPEED

For best performance operate engine at full throttle. Use transmission to set tractor speed between 2 and 3.5 mph (3.2 and 5.6 kph) depending on height, moisture content and density of turf to be mowed. Uneven cutting is often a result of excessive ground speed.

## CUTTING GRASS

Average lawns are usually cut at a height between 2 and 3 inches (5 to 7.6 cm). Every time mower cutting

height is changed refer to "Cutting Height" and "Anti-Scalp Rollers" sections in this manual for proper belt alignment and settings. Tall grass and weeds should be cut with mower in its highest position, making a second pass cutting to height desired. Always keep mower blades sharp.

Very tall grass can be cut without difficulty by using a little care. Set mower in its highest cutting position and enter area at a slow speed. If necessary, take a cut on-half the width of mower, overlapping previously cut area on each pass. Then, with mower set to desired height, make a finish cut over entire area.

## CUTTING CONDITIONS

Under some unusual mowing conditions, mower may leave a "streak" of uncut grass, which can be caused by any one of the following conditions:

1. Engine being operated at less than full throttle.
2. Dull blades or underside of mower deck clogged with matted grass.
3. Ground speed too high for conditions - adjust to 2 MPH (3.2 kph), or less if necessary.
4. Mower level adjustment.
5. Incorrect tire pressures.
6. Striking only on turns indicates turns are being made too sharply.
7. If blades have been sharpened a number of times they may be too short to "overlap" each other, and must be replaced.

# ADJUSTMENTS

## CUTTING HEIGHT

Mower cutting height can be set from "LOW" to "HIGH" range. To set cutting height, raise attachment lift all the way up to latched position. Move Dial-A-Height knob clockwise or counterclockwise so that cutting height is at desired setting (Fig. 1). Lower attachment lift.

A double groove PTO pulley allows operator to reduce belt misalignment when using mower cutting heights of 3/4" thru 4" (Fig. 2). Upper pulley groove is used for typical 2" thru 4" cutting heights. Lower pulley groove must be used for extremely low cutting heights of 3/4" thru 2 1/2". Declutch PTO when height setting is outside specified range of PTO pulley groove being used e.g., when lifting to transport height with belt in lower PTO pulley.

## ANTI-SCALP ROLLERS

**IMPORTANT:** Anti-Scalp rollers must be adjusted each time height setting is changed, so that deck will follow contour of ground and does not scalp turf.

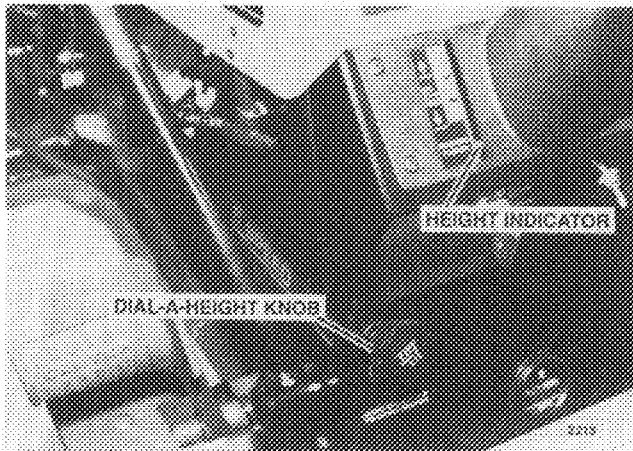


FIG. 1 Mower Cutting Height Indicator

With tractor on a flat surface, all tires inflated to 12 P.S.I. and height-of-cut in desired setting, adjust all

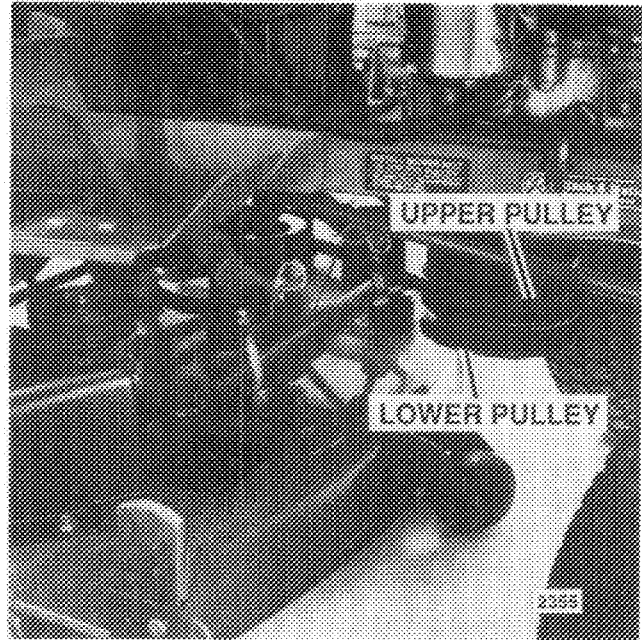


FIG. 2 PTO Pulley Grooves

rollers so they are approximately 1/4" to 3/8" above ground (Fig. 3).

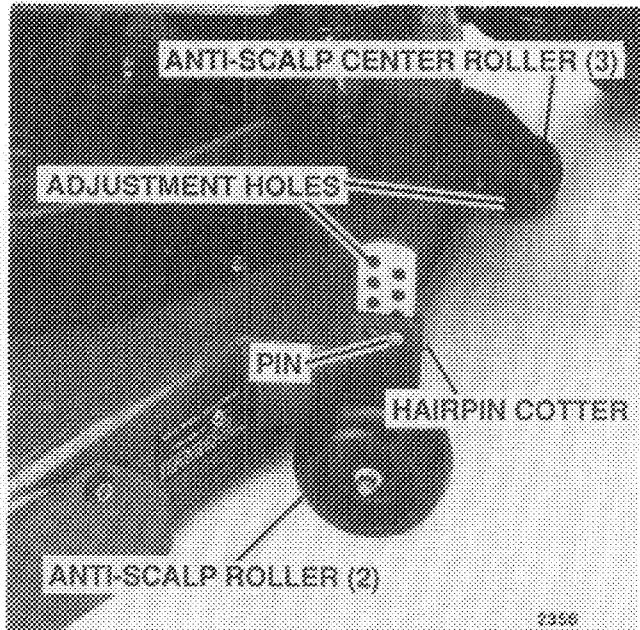


FIG. 3 Anti-Scalp Roller Adjustments

# MAINTENANCE



**Sharp edges of mower blades can cut you during blade maintenance or adjustment. Use suitable covering over cutting edges of blade to prevent bodily harm.**

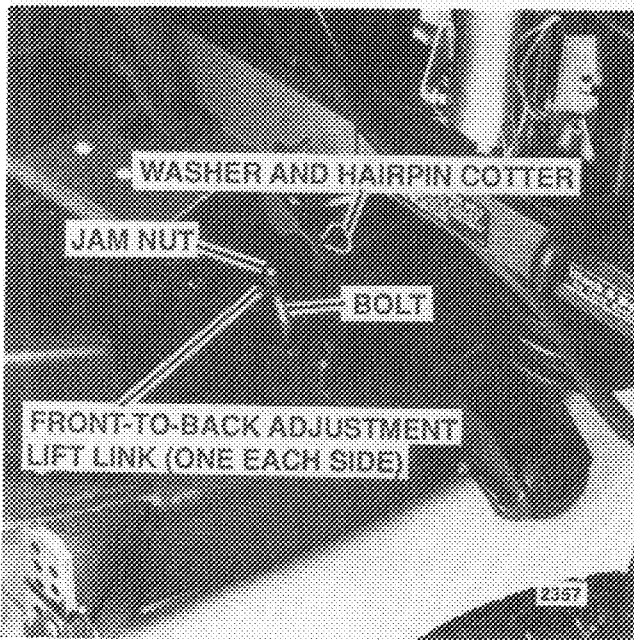
**IMPORTANT:** Every time mower is installed, check for proper operation of PTO clutch and brake. Adjustment of PTO clutch is covered in tractor Operator's Manual.

## LEVEL MOWER

Set mower height between 3/4" and 3", mower rests on gauge wheels in this setting range. There is a front-to-back adjustment procedure for this cutting height range.

Park tractor on smooth level surface and check tires for proper inflation pressure (12 PSI - .85Kg/cm<sup>2</sup>) before leveling mower.

Turn center blade front-to-back and make sure gauge wheels are contacting ground. Loosen front link jam nuts and turn bolts evenly so that blade tips are equal distance from surface (Figs. 4 & 5). Tighten jam nut on front links after mower is level.

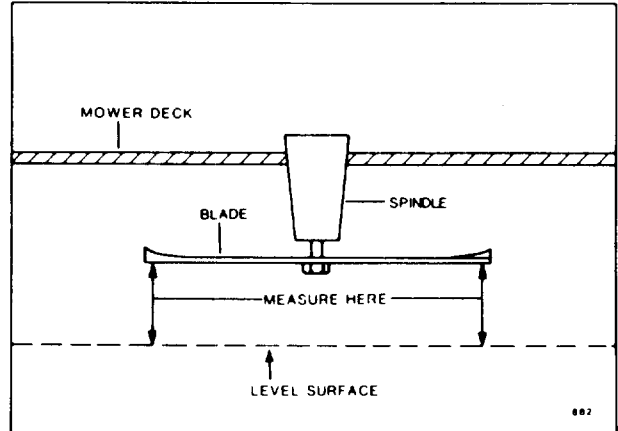


**FIG. 4 Front-To-Back Adjustment**

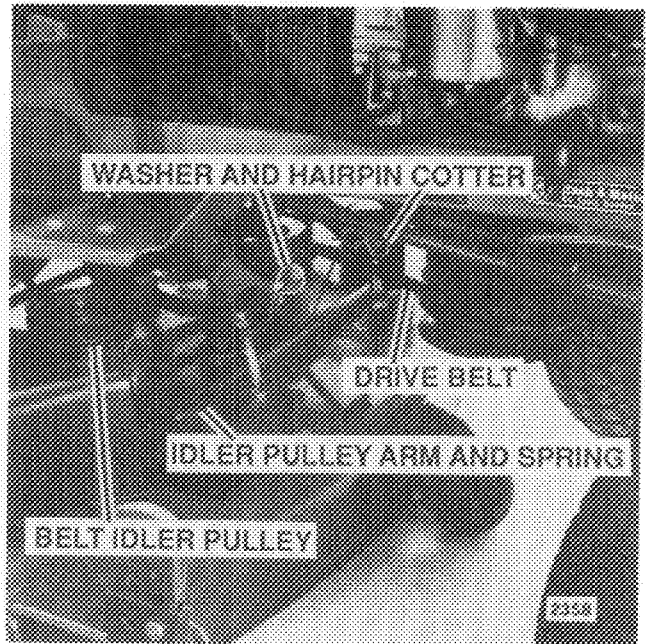
## MOWER REMOVAL

Pull on drive belt idler pulley arm and remove drive belt from PTO pulley (Fig. 6). Remove two hairpin cotters,

washers and front lift links from tractor (Fig. 7). Remove left rear hairpin cotter, washer and link from tractor (Fig. 8). Remove two hairpin cotters, two washers and mower from tractor rear lift arms (Figs. 7 & 9). Raise attachment lift all the way up in latched position. Turn front wheels all the way left and slide mower out from under right side of tractor.



**FIG. 5 Blade Level**



**FIG. 6 Drive Belt Removal and Installation**

## MOWER INSTALLATION

**IMPORTANT:** Before installation, check that all mower blade nuts are tight: Blade Nut Torque Is 80-100 ft. lbs. (112-140 Nm)

Position mower on right side of tractor, turn front wheels all the way left (Fig. 10).

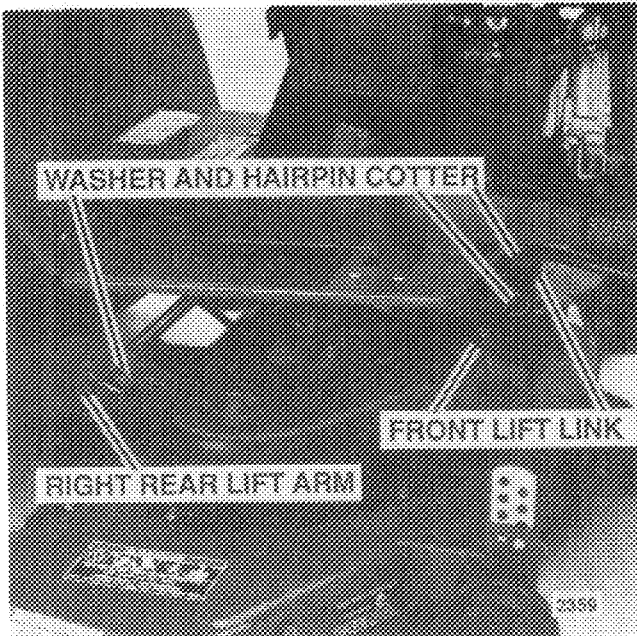


FIG. 7 Right Side Mower Attachment

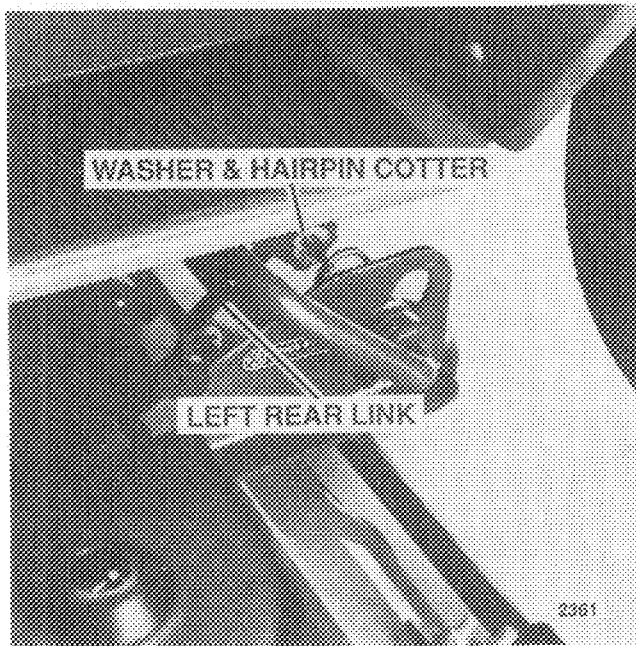


FIG. 8 Left Side Mower Link Attachment

Raise attachment lift all way up to the latched position. Slide mower under tractor and straighten front wheels. Turn Dial-A-Height knob counterclockwise and lower attachment lift all the way down. Align left and right guide bushings with lift arm (Figs. 7 & 9). Make sure that guide bushings slide freely and roll on shaft. Slide mower to the left slightly to engage left hand bushing on lift arm and then right hand bushing on lift arm. Secure bushings to lift arm with flat washers and large hairpin cotters (Figs. 7 & 9).

Install drive belt as outlined under "INSTALL DRIVE BELT" section of this manual. Install front lift links to tractor front lift arms using 1/2 washers and small hairpin cotters (Figs. 7 & 11). Left front attaching bracket must be positioned between drive belt strands.



FIG. 9 Left Rear Lift Arm Attachment



FIG. 10 Slide Mower Under Tractor

Connect rear link to lift arm with 1/2 washer and small hairpin cotter (Fig. 8).

Level mower as outlined under "LEVEL MOWER" section in this manual.

## INSTALL DISCHARGE CHUTE

Locate discharge chute, 1/2 washer, spring, 1/4 x 3/4 cotter pin, 2 nylon washers, rubber bushing and 3/8 jam nut (Fig. 12). Place small end of spring in small hole of discharge chute, slide spring and discharge chute on mower deck rod and secure with cotter pin. Install bushing and nylon washer on front deck bolt. Install discharge chute.



FIG.11 Left Front Lift Link Installed

second nylon washer and jam nut on front deck bolt so that nut is flush with end of bolt. One nylon washer must be on each side of discharge chute. Check that discharge chute moves freely up and down with spring down pressure.

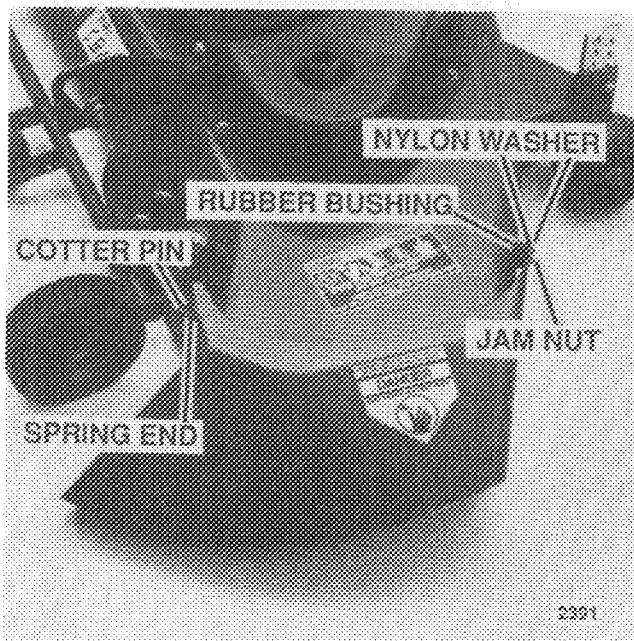


FIG. 12 Install Discharge Chute

## BLADE MAINTENANCE

To obtain optimum mowing results, mower blades should be kept sharp and well balanced. To sharpen blades, remove mower from tractor. Remove blade attaching nuts and washers from end of spindles and remove blades. A special wrench is available from your Authorized Dealer to hold spindle when removing blade. If wrench is not available, a 2" x 4" wood block may be placed between side of mower deck and blade to "lock" it in position when loosening attaching hardware.

File or grind blades evenly. Take care to retain angle of original cutting edge. Blade balance can be checked on a blade balancer, available at most hardware stores. Reinstall blades with lift area (turned up section) facing mower deck using washers and nuts. Tighten blade attaching nuts to a torque of 80-100 ft. lbs. (112-140 Nm).

## DRIVE BELT REMOVAL

Stop engine and remove spark plug wire. Lower mower all the way down. Pull on idler pulley arm and remove belt from PTO clutch pulley (Fig.6). If replacing drive belt, remove right and left belt guards (Fig. 13).

## INSTALL DRIVE BELT

Be sure to purchase genuine Toro belts for replacement purposes as these belts are designed specifically for each application. Make sure spring is attached to pulley idler arm and deck (Fig. 6). Make sure drive belt is seated in spindle pulleys. Pull on idler pulley arm and install belt in PTO pulley groove. Refer to "CUTTING HEIGHT" section of this manual for proper PTO pulley groove usage. If drive belt was replaced, install belt covers (Fig. 13).

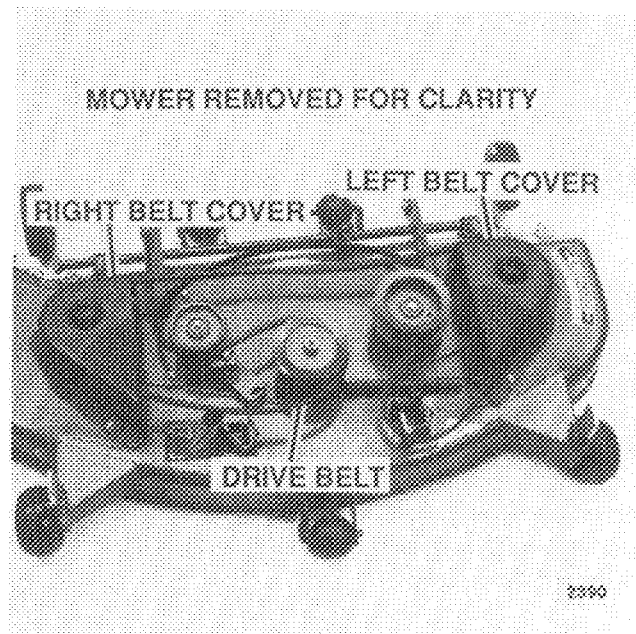


FIG. 13 Drive Belt Routing

## LUBRICATION

Lubricate pivoting arms and levers after every 10 hours of operation, with light machine oil, applied directly to wear surfaces. Rollers should NOT be lubricated.

Lubricate mower gage wheels every 25 operating hours.

Mower spindle and idler pulley arm bearings should be lubricated at 50 operating hour intervals (Fig.14). Use a pressure type grease gun and #2 multi-purpose lithium grease. Four to six pumps of a hand type grease gun will usually fill each spindle after 50 hours use.

**Following service intervals are considered MAXIMUM under normal conditions. Increase frequency under extremely dirty or dusty conditions.**

**Oil recommendations:**

**Pivoting Arms ..... 10 hrs.**

**Pivoting Levers ..... 10 hrs.**

**Grease Recommendations:**

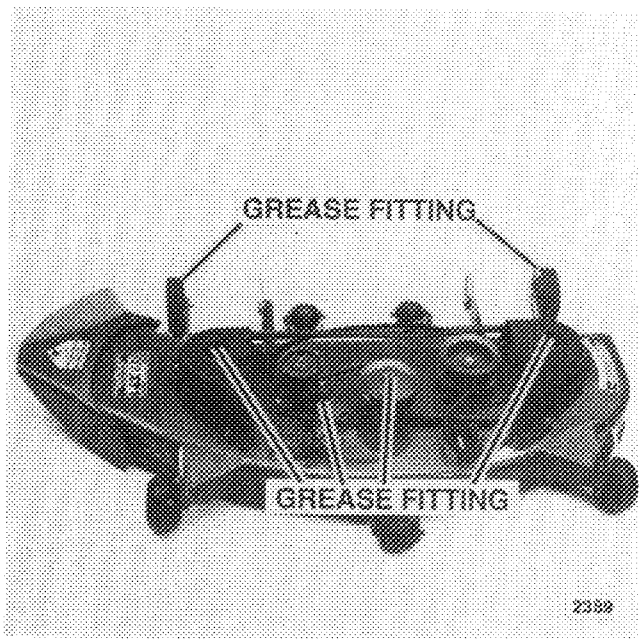
**Spindles ..... 50 hrs.**

**Idler Arm ..... 50 hrs.**

**Rear gage Wheels ..... 25 hrs.**

**DO NOT LUBRICATE ROLLERS**

### LUBRICATING CHART



**FIG. 14 Grease Fitting Locations**

## UNDERSIDE CLEANING

It is of vital importance to clean underside of mower deck frequently. A accumulation of matted clippings seriously impairs mower's ability to "lift " grass blades into cutting position and discharge clippings evenly. Matted grass clogging underside of mower is often times a cause of uneven cutting. Remove mower from tractor to clean underside.

## GENERAL CARE AND STORAGE

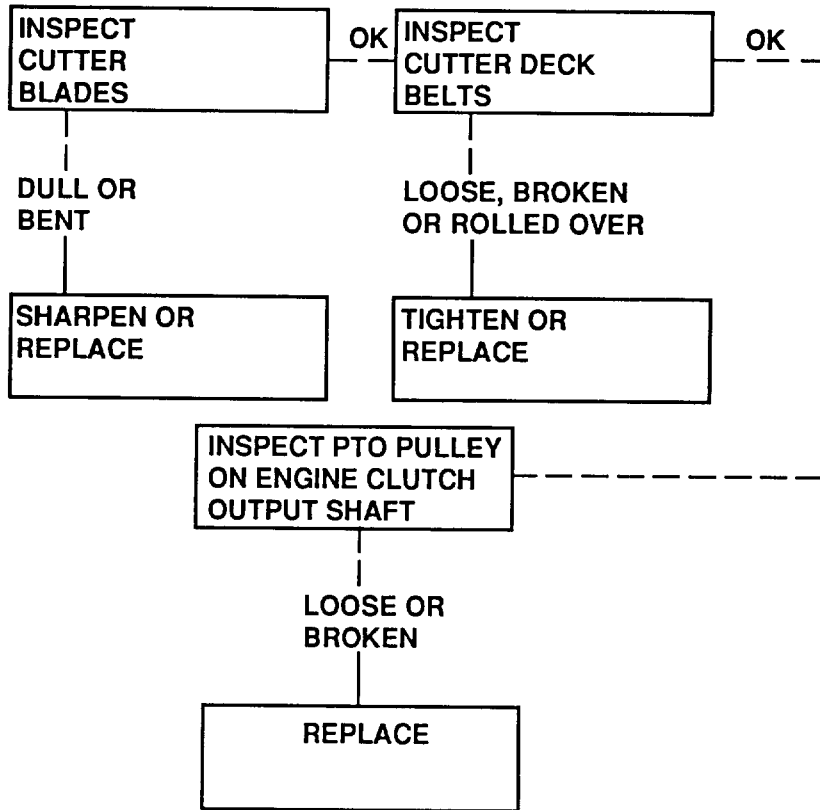
Top of mower deck should be washed with a garden hose after each use. A mild detergent may be used to remove stubborn dirt. After washing, allow mower to dry, then start tractor and engage mower for approximately one minute to remove excess water from belts and pulleys.

Touch up painted surfaces with a fresh coat of TORO paint, available from your authorized dealer in aerosol cans.

Store mower in a clean, dry place or protect it with a weather-proof cover when stored outdoors.

# TROUBLESHOOTING

## UNIT WILL NOT CUT OR CUTS POORLY





# THE TORO TOTAL COVERAGE GUARANTEE

## A Full Two-Year Warranty (Limited Warranty for Commercial Use)

### What Is Covered By This Express Warranty?

The Toro Company promises to repair any TORO Product used for residential purposes if defective in materials or workmanship for a period of two years from the date of purchase. The cost of parts and labor are included, but the customer pays the transportation costs.

Transportation within a 15 mile radius of the servicing dealer is covered under this warranty for two-stage snowthrowers, walk behind debris equipment and all TORO Wheel Horse riding products. Walk power mowers, single stage snowthrowers, and other products not specifically covered, are excluded from the transportation coverage provided by this warranty.

### What Products Are Covered By This Warranty?

This warranty applies to all gasoline powered Consumer Products (including TORO Wheel Horse riding products). ProLine riding products, wide area walk behind mowers and 21" Commercial mowers without blade stop controls are covered by separate warranty statements.

### How About Commercial Use?

TORO Consumer Products used for commercial, institutional or rental use are covered by a limited warranty for the following time periods from the date of purchase:

| Products  | Warranty Period         |
|---|-------------------------|
| • Garden Tractors   |                         |
| Chassis . . . . .   | 1 year limited warranty |
| Engine . . . . .  | 2 year limited warranty |
| • 21" Commercial Duty Walk Mower<br>with blade stop controls . . . . .  | 1 year limited warranty |
| • Lawn Tractors, Yard Tractors, Rear Engine Riders,<br>3.0 and 3.5 HP Edgers,<br>Straight Shaft Trimmers,<br>and Backpack Blowers . . . . . | 90 day limited warranty |
| • All Others . . . . .  | 45 day limited warranty |

### How Do You Get Warranty Service?

Should you feel your TORO product contains a defect in material or workmanship, contact the dealer who sold you the product or any Authorized TORO Service Dealer or TORO Master Service Dealer. The Yellow Pages of your telephone directory is a good reference source. The dealer will either arrange service at his/her dealership or recommend another Authorized Service Dealer who may be more convenient. You may need proof of purchase (copy of registration card, sales receipt, etc.) for warranty validation.

If for any reason you are dissatisfied with the Service Dealer's analysis of the defect in materials or workmanship or if you need a referral to a TORO Service Dealer, please feel free to contact us at the following address:

Toro Customer Service Department  
8111 Lyndale Avenue South  
Bloomington, MN 55420-1196  
612-888-8801

### What Must You Do To Keep The Warranty In Effect?

You must maintain your TORO Product by following the maintenance procedures described in the operator's manual. Such routine maintenance, whether performed by a dealer or by you, is at your expense.

### What Does This Warranty Not Cover? and

### How Does Your State Law Relate To This Warranty?

There is no other express warranty except the TORO Starting Guarantee on GTS Engines. This express warranty does not cover:

- Cost of regular maintenance service or parts, such as filters, fuel, lubricants, tune-up parts, blade sharpening, brake and clutch adjustments.
- Any product or part which has been altered or misused or required replacement or repair due to normal wear, accidents, or lack of proper maintenance.
- Repairs necessary due to improper fuel, contaminants in the fuel system, or failure to properly prepare the fuel system prior to any period of non-use over three months.
- Pickup and delivery charges for distances beyond a 15 mile radius from an Authorized TORO Service Dealer (covered products only).

All repairs covered by this warranty must be performed by an Authorized TORO Service Dealer using Toro approved replacement parts.

Repair by an Authorized TORO Service Dealer is your sole remedy under this warranty.

The Toro Company is not 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. Some states do not allow exclusions of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### 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.