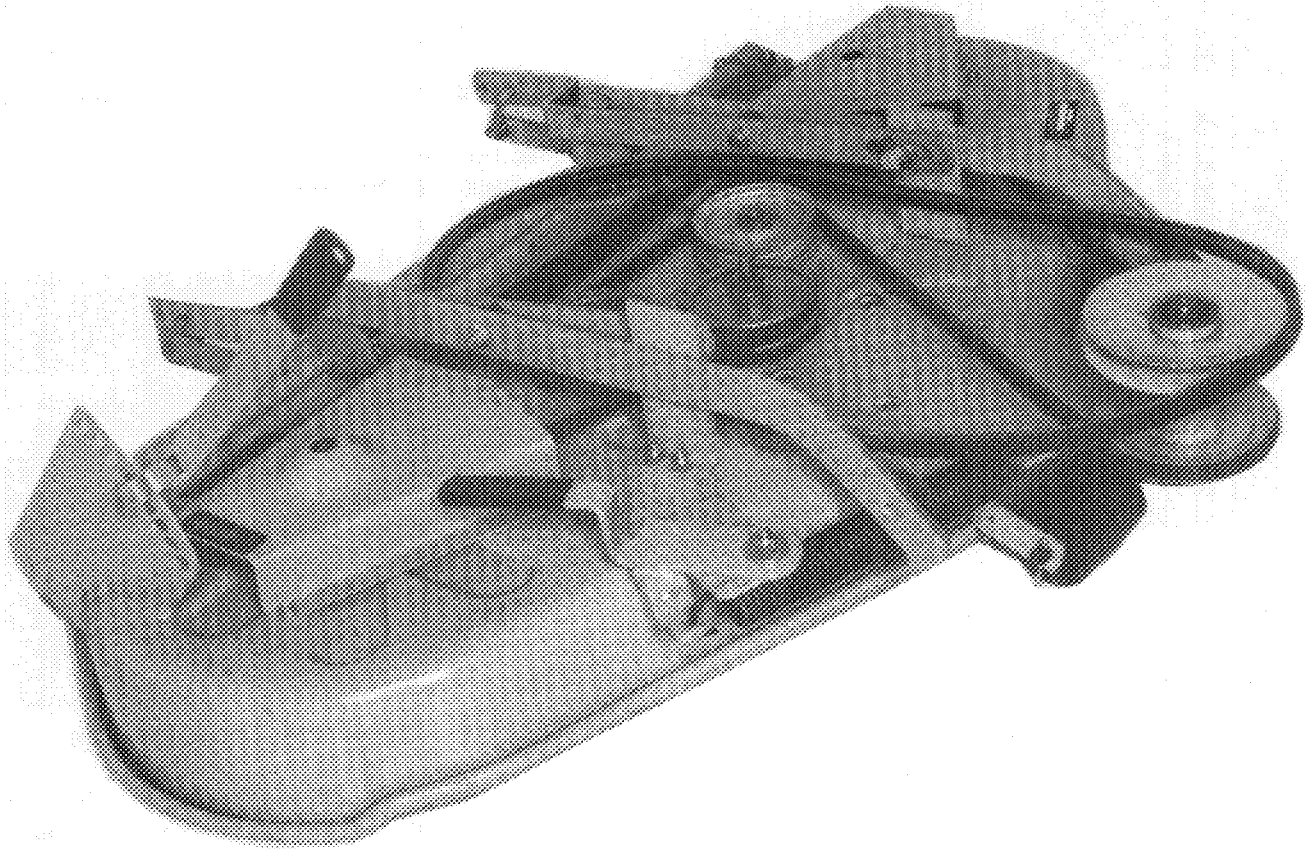


# Operating & Maintenance Instructions



42 in. (107 cm) Rear Discharge Mower

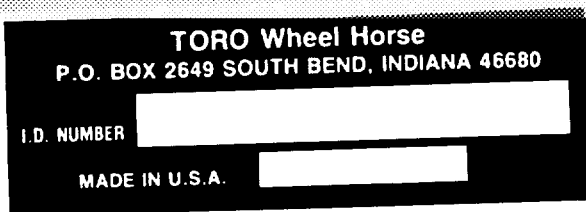
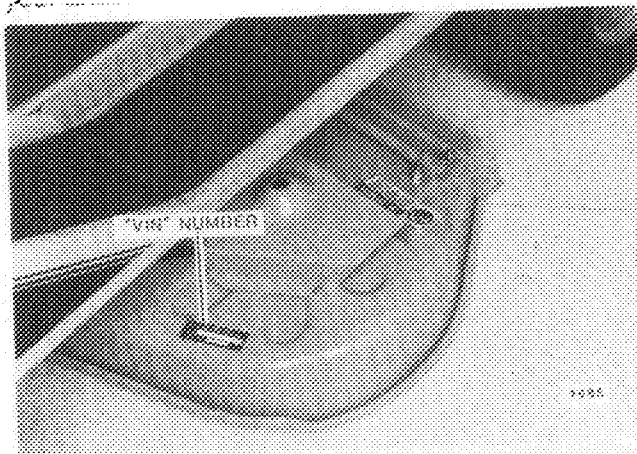
600 Series  
Mower



**Wheel Horse®**  
Tractors & Riding Mowers

## VEHICLE IDENTIFICATION (VIN) NUMBER

A Vehicle Identification Number identifies your Toro Wheel Horse attachment. This number should always be referred to when consulting with your dealer or factory concerning service, replacement parts, or questions you may have. If VIN plate is removed during repair operations it should always be replaced. For your reference, record below the number from VIN plate on your attachment.



MOWER VIN NUMBER LOCATION

## MOWER INSTALLATION

### ATTACH MOWER TO MACHINE

#### IMPORTANT

Before installation, check that all mower blade nuts are tight:

Blade nut Torque 80-100 ft. lbs. (112-140 Nm)

Check that mower spindles, front belt pulley and belt arm pivot have been lubricated. Use a pressure grease gun and #2 Multi-purpose lithium grease. See Maintenance section for locations.

#### ⚠ CAUTION ⚠

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.

Position mower along right side of tractor. Turn both front wheels to the right at a 90° angle (Fig. 1). Position height control lever in middle slot of quadrant.

Position mower belt tensioning lever to outside of mower. Place drive belt over top of front drive pulley.

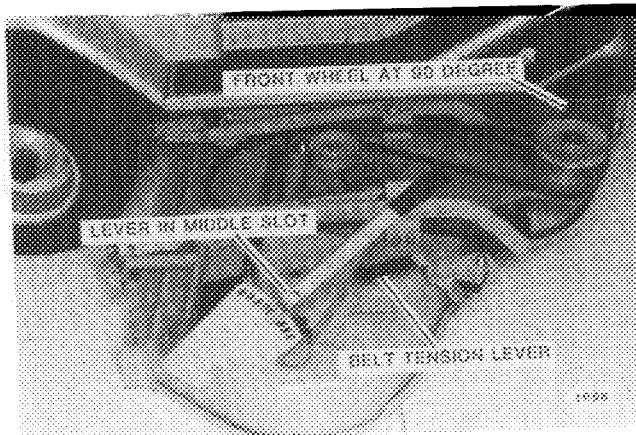


FIG. 1. Position Mower at Right Side of Machine

Slide mower under machine. Front pulley must pass between front Attach-a-Matic hitch and front shield (Fig. 2).

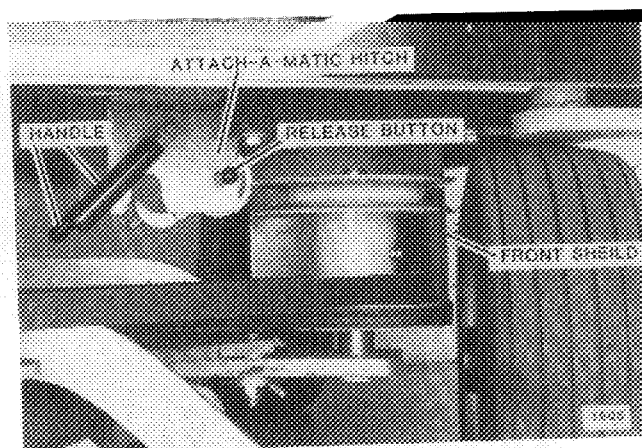


FIG. 2 Position Mower Under Machine

Open right and left Attach-a-Matic hitches (Fig. 3); push release buttons in and lower handles. Lower mower height control lever all the way down. Raise left and right front mower attaching arms into hitches. Raise handles and be sure they lock in raised position.

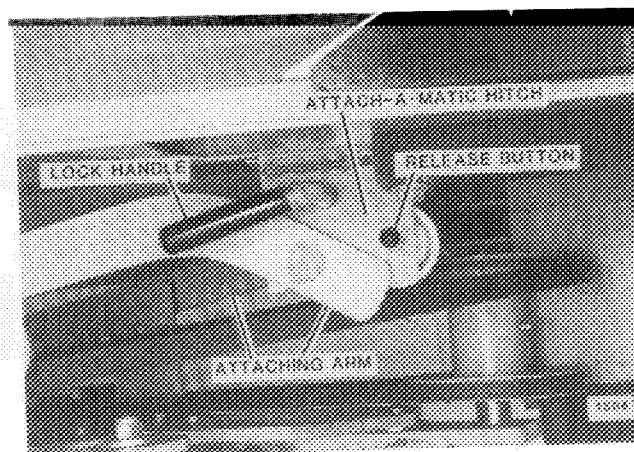
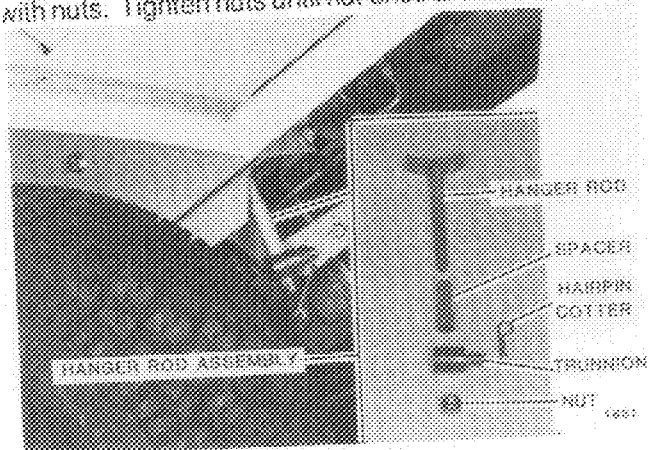


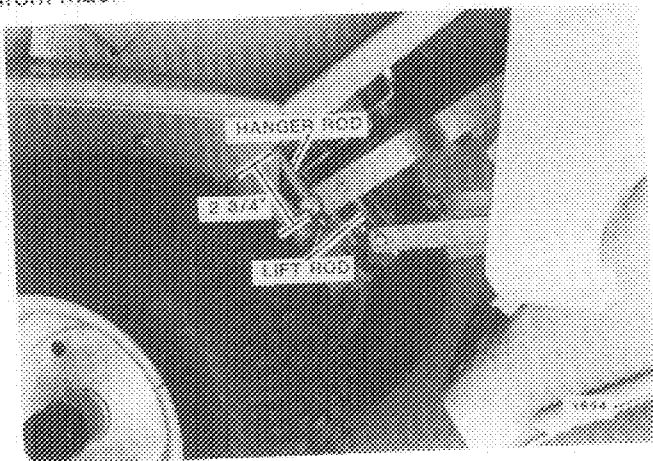
FIG. 3 Front Attach-a-Matic Hitch

Locate two hanger rod assemblies (Fig. 4). Insert mower hanger rods into left and right front holes of machine frame. Install spacers and trunnions on rods with nuts. Tighten nuts until nut ends are flush with rod.



**FIG. 4 Install Hanger Rods on Tractor**

Install trunnion on mower lift arms using hairpin cotter pins (Fig. 5). Adjust left and right nuts to obtain 2 3/4" from machine frame to bottom of trunnions.

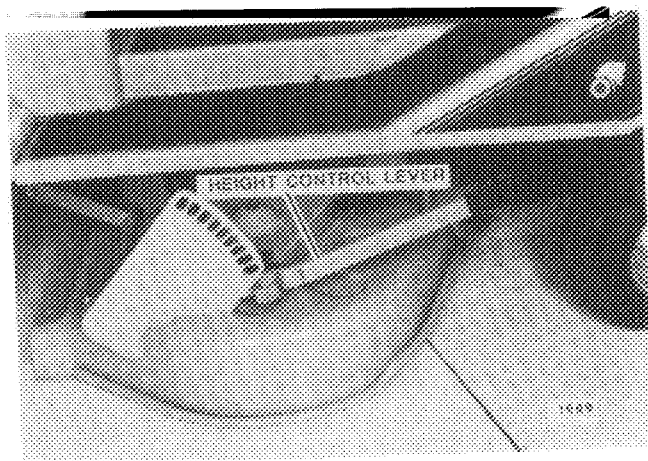


**FIG. 5 Adjust Length of Rod**

Install mower drive belt and level mower as described under "INSTALL DRIVE BELT" and "LEVEL MOWER".

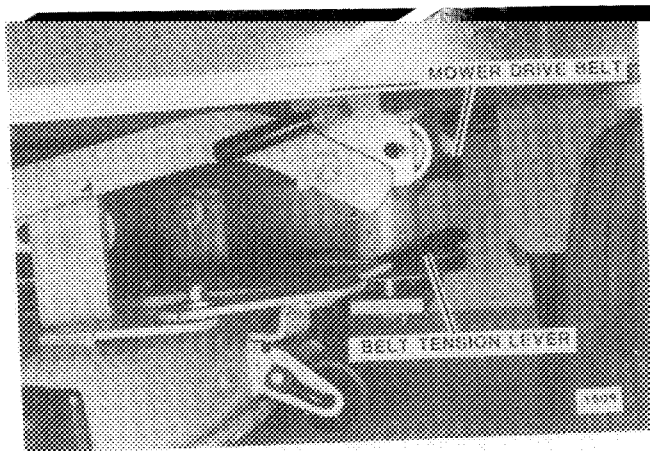
## INSTALL DRIVE BELT

Lower height control lever all the way down (Fig. 6).



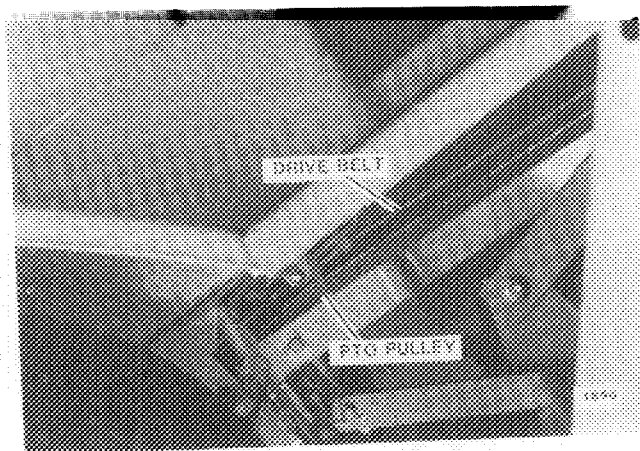
**FIG. 6 Lower Height Control Lever**

Move belt tension handle to center of mower (Fig. 7). Position drive belt on top groove of front pulley.



**FIG. 7 Front Drive Belt Mounting**

Install belt on PTO pulley (Fig. 8).



**FIG. 8 Rear Drive Belt Mounting**

Move belt tension lever to outside of mower in operate position (Fig. 9). Check and adjust mower level as necessary.



**FIG. 9 Belt Tension Handle (Operate Position)**

## MOWER REMOVAL

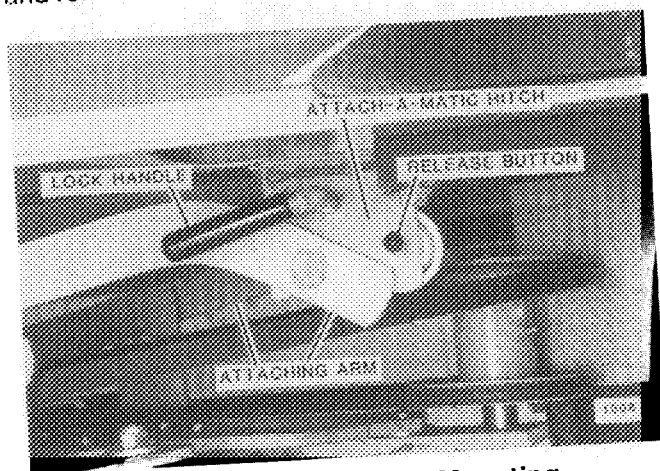
Remove drive belt by reversing procedures under "INSTALL DRIVE BELT" section of this manual.

Lower mower all the way down and remove left and right hanger rod trunnions from mower (Fig. 10).



**FIG. 10 Rear Mower Mounting**

Open left and right front Attach-a Matic hitches (Fig. 11). Raise lift lever into middle cutting height. Remove attaching arms from hitches and move belt tension lever to outside of mower. Turn wheels to the right 90° and remove mower from right side of machine.

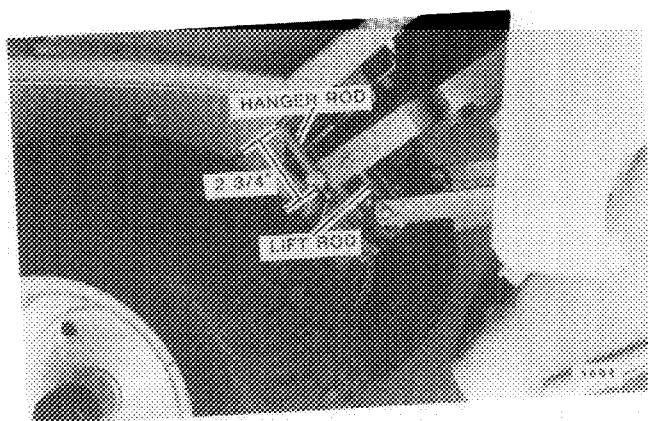


**FIG. 11 Front Mower Mounting**

## LEVEL MOWER

Position tractor on a level surface and adjust front tire pressure to 8 PSI and rear tires pressure to 8 PSI.

Adjust left and right hanger rod nuts to obtain 2 3/4 inches from frame to bottom of trunnions (Fig. 12). Place front wheels in forward operating position and place mower height control in 4th notch from top.



**FIG. 12 Adjust Rod Length**

### Adjust side-to-side mower level:

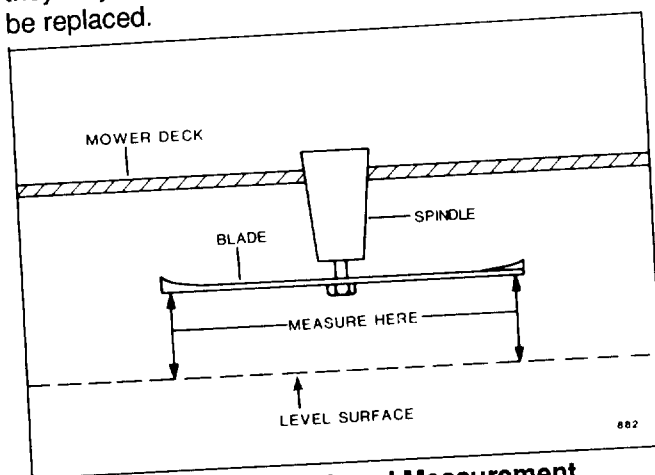
1. Turn each outside mower blade side-to-side.
2. Measure outside end of each side blade tip and adjust either right or left lift rod adjustment nut to obtain equal distances from surface to blade tips (Figs. 13 & 14).

### Adjust front-to-back mower level:

1. Turn center mower blade front-to-back.
2. Measure center blade tips and adjust hanger rods evenly so that distance from surface to front and rear of blade tips are equal to 1/8 inch low in front (Figs. 13 & 14).

Under some unusual mowing conditions, mower may leave a "streak" of uncut grass, which can be caused by any 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 speed as necessary.
4. Streaking on turns indicates turns are being made too sharply.
5. If blades have been sharpened a number of times, they may be too short to "overlap" each other and must be replaced.



**FIG. 13 Mower Level Measurement**



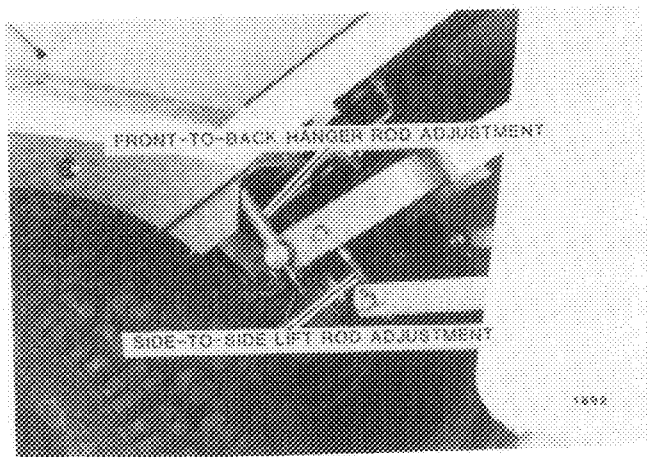


FIG. 14 Level Adjusting Rods

## OPERATION

### IMPORTANT

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

### ⚠ DANGER ⚠

Keep 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/brake and removing ignition key.

Move mower height control lever to hole on quadrant corresponding to desired cutting height. This can be set for cutting heights between 1" and 4" (2.5-10.2 cm). Recommended cutting height is 2 to 3 inches (5-7.6 cm) for most mowing situations.

Start engine and set engine speed to full throttle. Engage PTO clutch. Regulate ground speed with transmission for best cutting results. Uneven cutting often results from excessive ground speed. To correct, reduce ground speed with transmission while maintaining full engine throttle setting.

To mow extra tall grass, raise mower to its highest position for a first cutting and use a slow ground speed. Then re-cut grass to normal height.

## MAINTENANCE AND STORAGE

### LUBRICATION

Mower spindle bearings, front belt pulley and belt tension arm pivot should be lubricated at 50 operating

hour intervals (Figs. 15 & 16). 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 and pulley after 50 hours use. Grease fittings are conveniently located at top of spindle shafts and center of pulley.

Lubricate pivoting arms and levers at 25 hour intervals with light machine oil applied directly to wear surfaces. Anti-scalp rollers should **NOT** be lubricated.

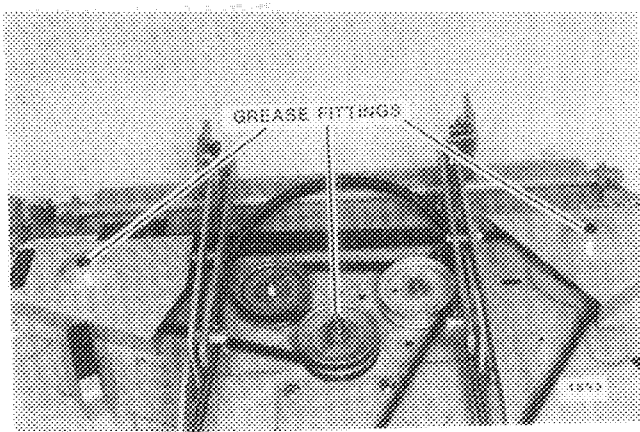


FIG. 15 Spindle Grease Fittings

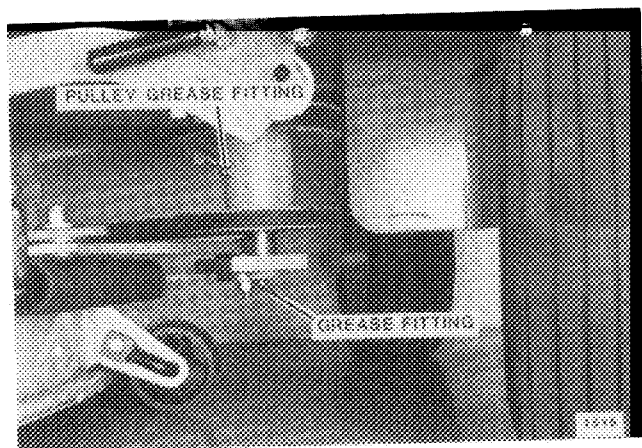


FIG. 16 Front Pulley and Pivot Grease Fittings

## BLADE MAINTENANCE

### ⚠ CAUTION ⚠

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.

To obtain optimum mowing results, mower blades should be kept sharp and well balanced. To sharpen blades, remove mower from machine and invert mower. Remove blades using supplied Toro Wheel Horse spindle blade wrench.

Hold spindle shaft hex nut with wrench while removing blade attaching nuts and washers from end of spindles. If spindle blade wrench is not available when servicing, a short piece of 2" x 4" lumber may be placed between side of mower deck and blade to "lock" it in position while removing attaching hardware.

File or grind blades evenly. Take care to retain angle of original cutting edge. Blade balance can be checked on an inexpensive blade balancer, available at most hardware stores.

Reinstall blades with lift area (turned up section) facing mower deck. Tighten blade attaching nuts to a torque of 80-100 ft. lbs. (112-140 Nm).

Reinstall mower on machine.

### **UNDERSIDE CLEANING**

It is of vital importance to clean underside of mower deck frequently. 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.

### **MOWER DRIVE BELT REPLACEMENT**

Remove drive belt by reversing procedures under "INSTALL DRIVE BELT" section of this manual.

Be sure to purchase genuine Wheel Horse belts for replacement purposes as these belts are designed specifically for each application.

Install new drive belt as outlined under "INSTALL DRIVE BELT" section of this manual.

### **SPINDLE BELT REPLACEMENT**

Remove mower from machine.

Remove two side belt covers and note routing of belt. Remove spindle belt. Check to be sure all pulleys work freely. Refer to belt routing decal and install new Toro Wheel Horse belt. Reinstall belt covers.

Reinstall mower on machine.

### **GENERAL CARE AND STORAGE**

Top of mower deck should be washed with a garden hose after each use. A mild automotive detergent may be used to remove stubborn dirt. After washing, allow mower to dry, then start machine 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 Wheel Horse Red" 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.

A separate parts manual for your Toro Wheel Horse attachment can be obtained by completing the attached form below. You will receive an invoice with manual.

**PUBLICATIONS  
TORO WHEEL HORSE PRODUCTS, INC.  
P.O. Box 2649  
South Bend, Indiana 46680**

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**PARTS MANUAL ORDER FORM**

Enter number shown on your attachment:

<b>TORO Wheel Horse</b>	
<b>P.O. BOX 2649 SOUTH BEND, INDIANA 46680</b>	
<b>I.D. NUMBER</b>	<input type="text"/>
<b>MADE IN U.S.A.</b>	<input type="text"/>

MAIL LABEL -- PLEASE PRINT CLEARLY

**TO:**

**Name** \_\_\_\_\_

**Address** \_\_\_\_\_

**City**

**State**

**Zip**

Product information and specifications are shown herein as of the time of printing. Wheel Horse Products, Inc. reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligation.

Right at home.



**Wheel Horse®**  
Tractors & Riding Mowers