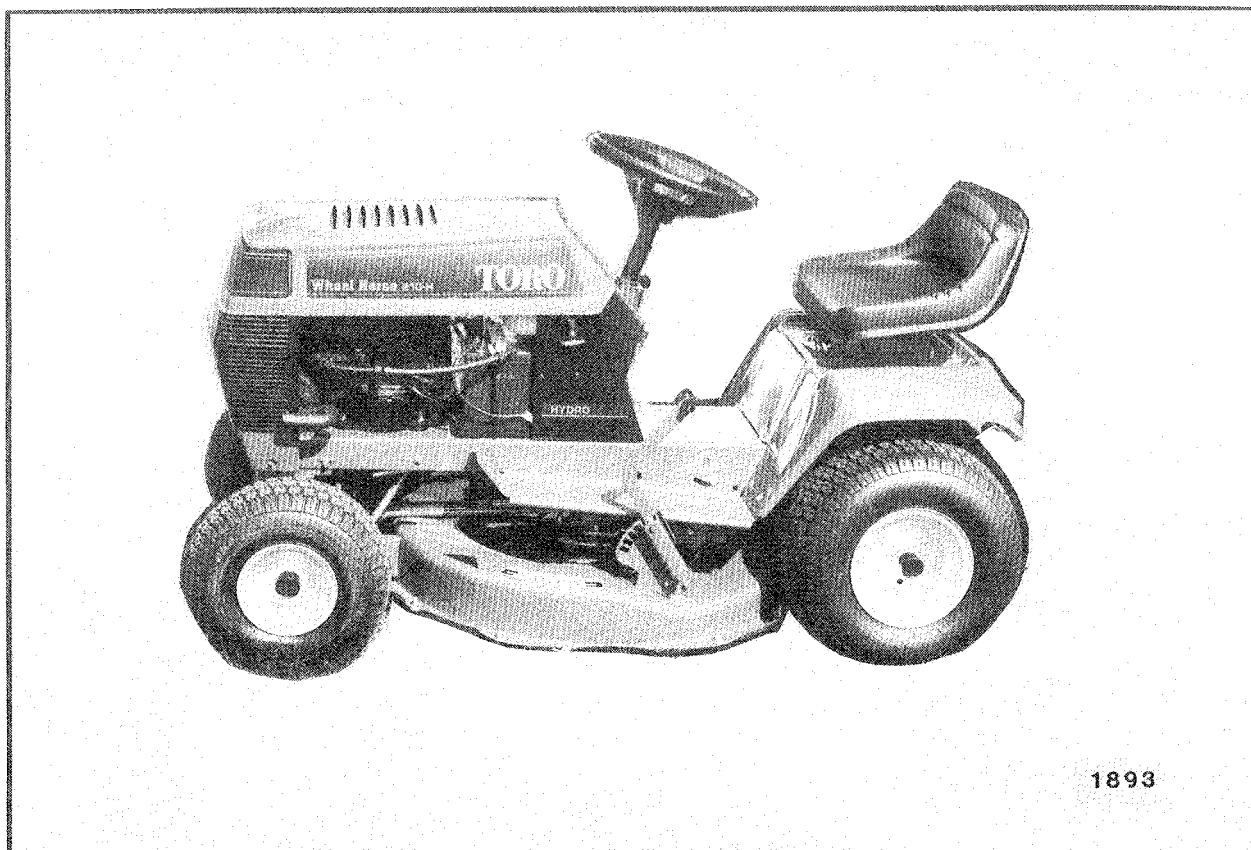


# Operating & Maintenance Instructions



30 in. (76.2 cm) Side Discharge Mower

36 in. (92 cm) Rear Discharge Mower

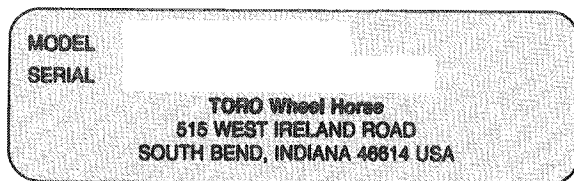
200 Series  
Lawn Tractor  
Mowers



**Wheel Horse®**  
Tractors & Riding Mowers

## 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. If plate is removed during repair operations it should always be replaced. For your reference, record numbers from Model and Serial Number plate on your attachment.



## ASSEMBLY

### INSTALLATION

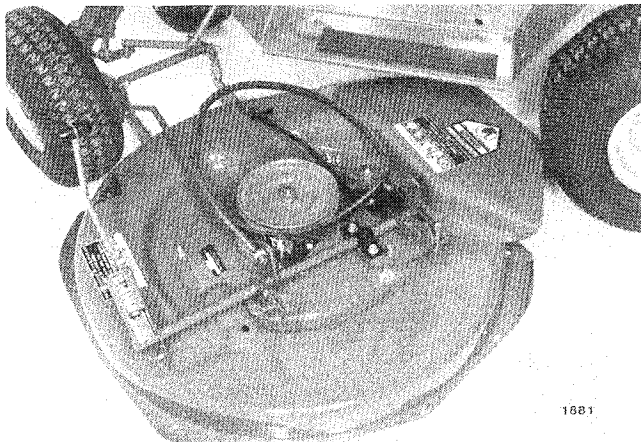
#### IMPORTANT

Before installation, check that mower blade bolt(s) are tight:

30" Mower Blade Bolt Torque - 100 ft. lbs. (140 Nm).  
36" Mower Blade Nut Torque - 80-100 ft. lbs. (112-140 Nm).

Check that mower spindle has been lubricated. Use a pressure grease gun and #2 multi-purpose lithium grease. Grease fitting is on base of spindle housing.

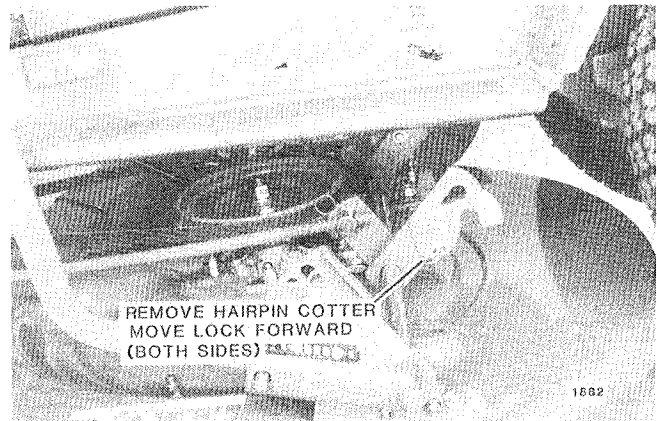
Set mower height adjustment in bottom hole of quadrant. Position mower at left side of tractor and turn front wheels all the way right.



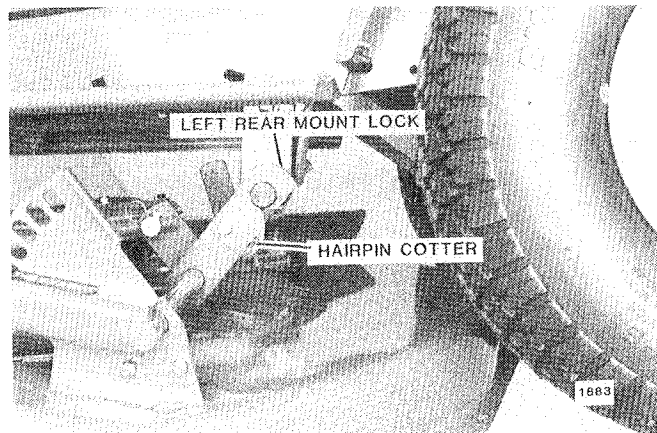
Slide Mower Under Tractor

Remove hairpin cotters from left and right rear mounts and swing locks forward. Lift rear of mower, insert hooks in hangers, position locking brackets on hangers and retain with hairpin cotters.

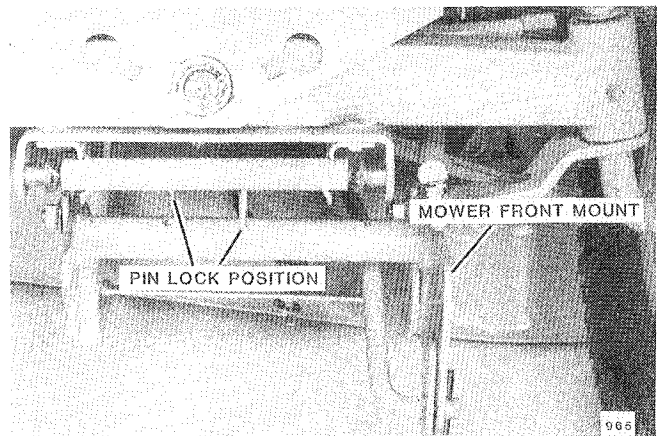
Straighten front wheels, move left and right spring loaded front mounting pins to center of tractor and lock in position. Raise mower front hitch hanger bracket, align mounting holes and release spring loaded pins.



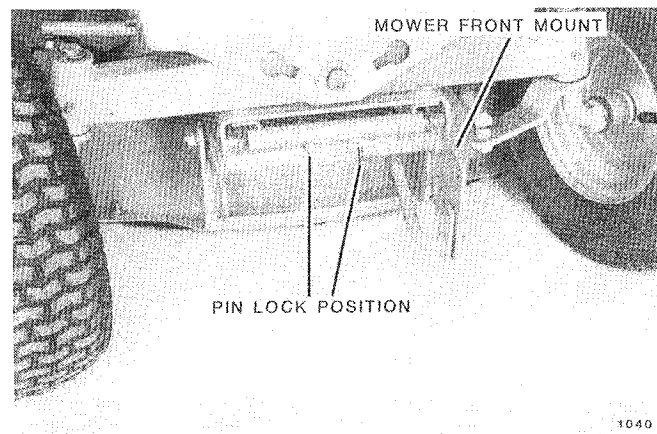
Prepare Rear Mounts



Attach Rear Mounts

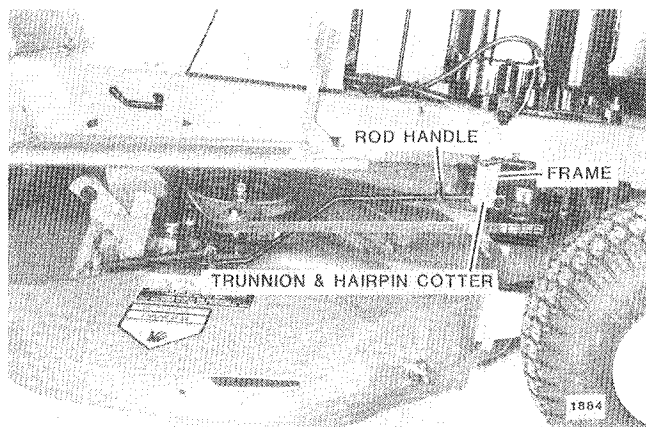


Prepare Front Mount

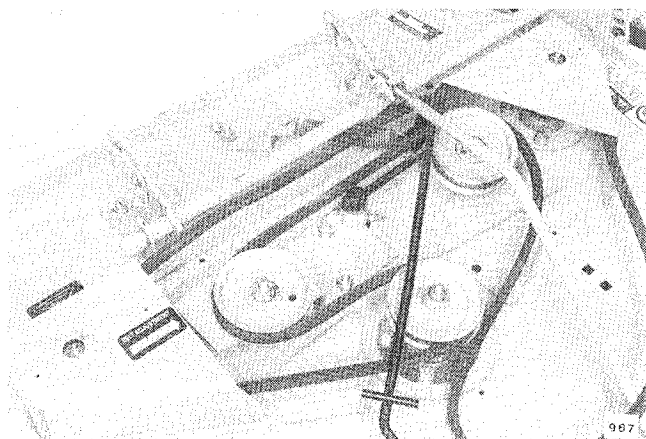


Attach Front Mount

Position drive belt on mower spindle and idler pulleys. Pull on rod handle and install drive belt on PTO clutch pulley and trunnion on frame bracket with hairpin cotter. Level mower as described under "Level Mower". Adjust belt tension as described under "Drive Belt Adjustment".



**30" Mower Belt Routing**



**36" Mower Belt Routing**

## ADJUSTMENTS

**⚠ DANGER ⚠**

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/brake and removing ignition key.

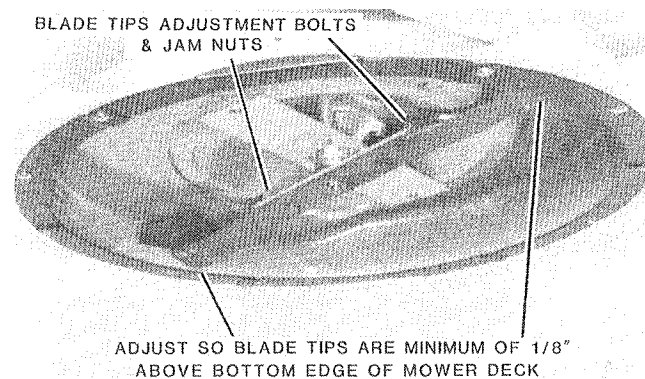
### Cutting Height

Cutting height is adjustable. Cutting height adjustment is made using height control lever at the left rear of mower. Move lever up to raise mower. Move lever down to lower mower.

### 30" Mower Blade Only

Mower blade-to-deck edge clearance adjustment must be checked and made if necessary before tractor is first operated, and at least once a season thereafter for efficient mowing. Proceed as follows:

Position mower blade front-to-rear and check that mower blade tips are 1/8" to 1/4" above bottom edge of mower deck.



### Blade Clearance Adjustment

Position mower blade side-to-side and again confirm that mower blade tips are 1/8" to 1/4" above bottom edge of mower deck.

As necessary loosen jam nuts and adjust bolts on blade bar so that blade tips (both sides) are 1/8" above bottom edge of mower deck. Recheck above dimension with blade positioned front-to-rear and side-to side. Tighten jam nuts after adjustments are made.

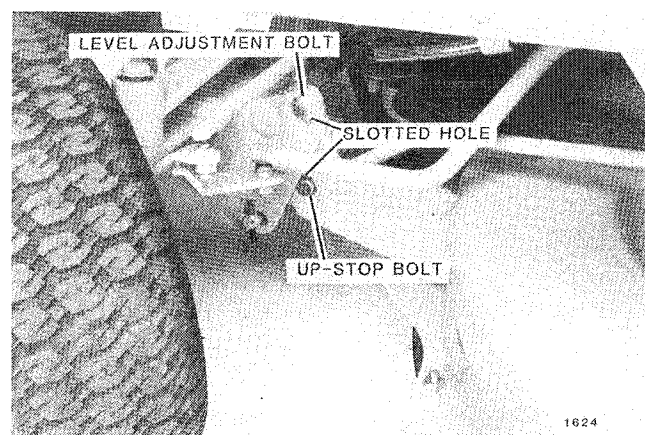
## LEVEL MOWER

Park tractor on a smooth level surface.

Check tires for proper inflation pressure - 12 PSI (.85 kg/cm<sup>2</sup>)

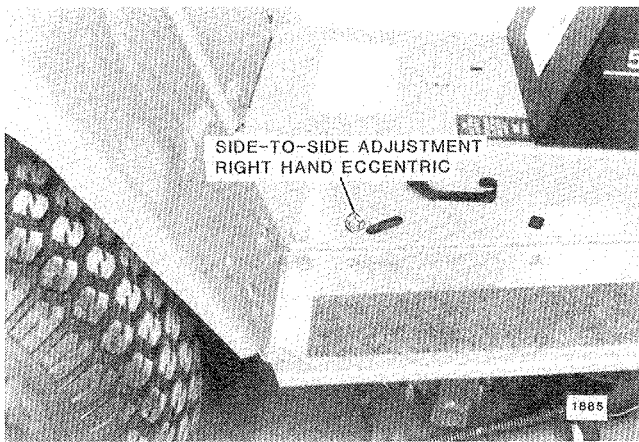
Set mower in middle cutting height position.

Loosen left mower leveling bolt so that bolt moves freely in slot.



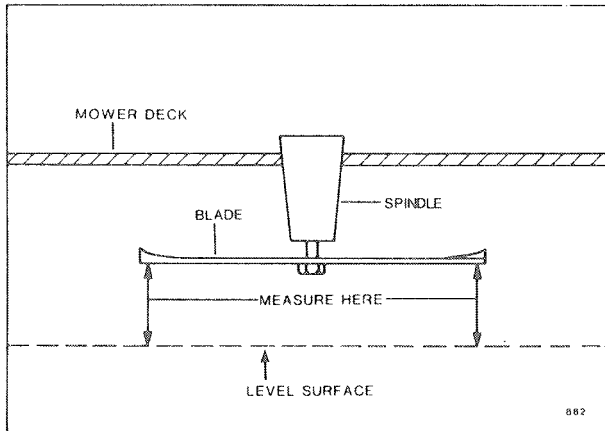
### Left Front Mower Bolt

Loosen right hand frame nut, turn eccentric screw in middle of adjustment and retighten nut.



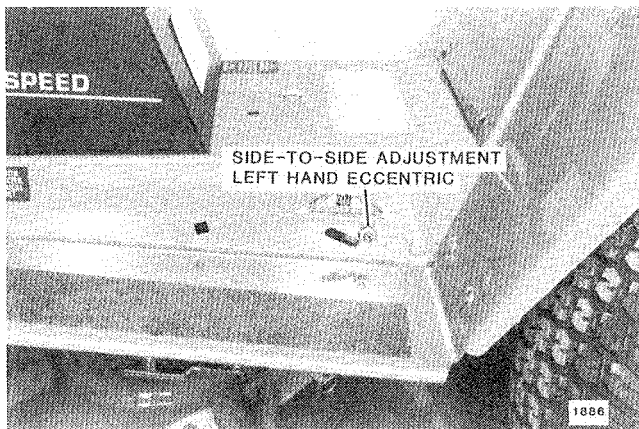
**Right Hand Frame Bolt**

Turn blade side-to-side.



**Blade Level**

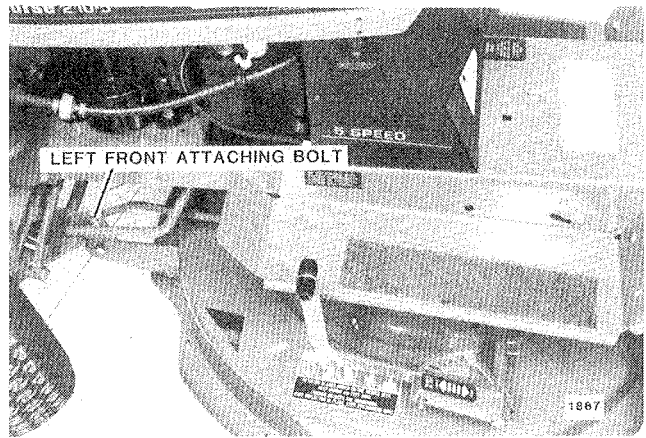
Adjust and secure left hand eccentric screw so that distance between right and left blade tip ends and surface is the same. If equal distance on blade tips to surface can not be achieved, secure left hand eccentric screw and readjust and secure right hand eccentric screw to get equal distance.



**Left Hand Frame Bolt**

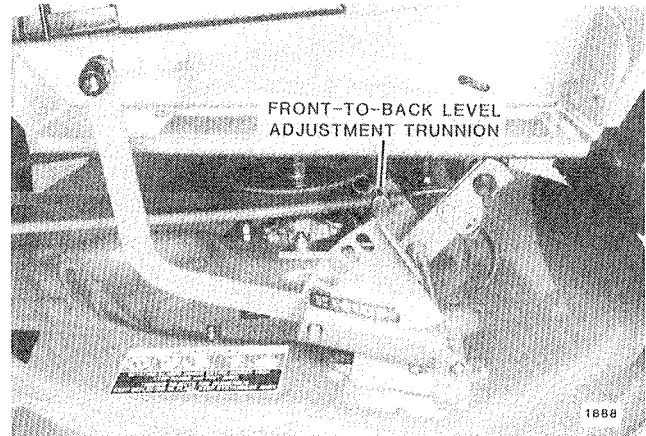
After side-to-side level is achieved and left and right frame eccentric nuts are tight, lightly shake left side of deck a few times to position left front attaching bolt in slot. Tighten left front attaching bolt.

Turn blade front-to-rear and adjust rod trunnion so that



**Side-To-Side Adjustment**

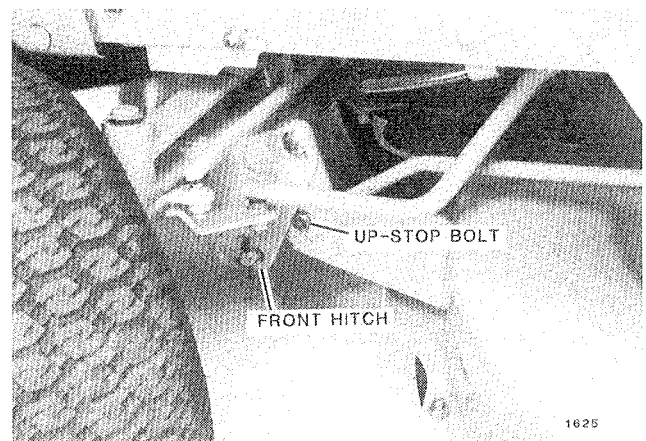
blade tips are equal distance from surface. Support front of mower with wooden block to relieve pressure on trunnion and remove wood block after trunnion is reinstalled. After equal distance is achieved, adjust trunnion counterclockwise one turn to slightly lower front of mower.



**Front-To-Rear Adjustment**

**30" Mower Up-Stop Bolt Only**

Set mower in highest cutting height position. Move up-stop bolt against front hitch and tighten.



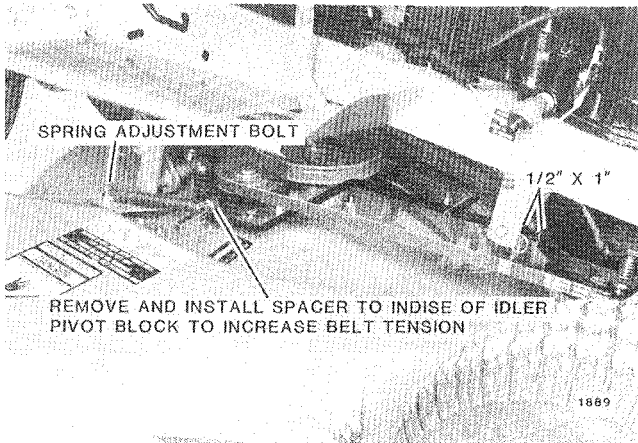
**Up-Stop Adjustment**

**DRIVE BELT ADJUSTMENT**

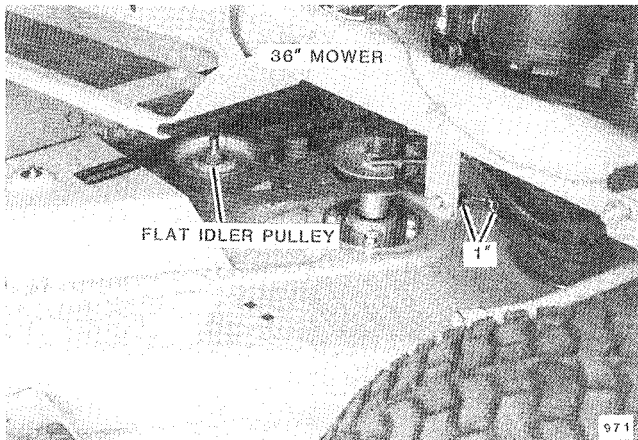
Set mower height in middle cutting adjustment.

On 30" mowers, if applicable place spacer to inside of idler block so that 1/2 to 1 inch (1.3 to 2.5cm) of rod extends past frame bracket. If belt slippage is experienced during operation, move spring bolt to rear hole.

On 36" mowers, loosen flat idler pulley and adjust so that 1 inch of rod extends past frame bracket. Retighten pulley.



**30" Mower Belt Adjustment**



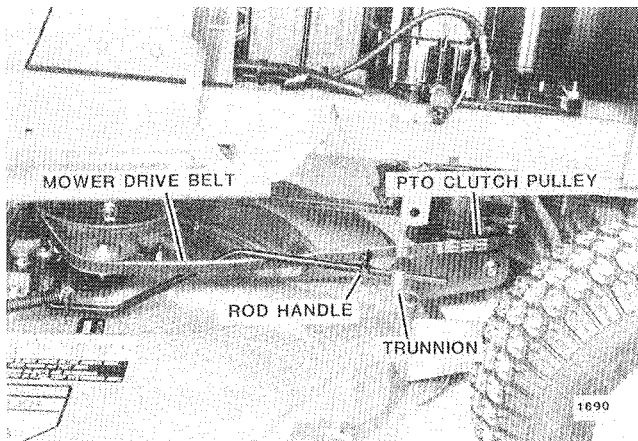
**36" Mower Belt Adjustment**

**REMOVAL**

Set mower height adjustment in lowest notch from bottom on quadrant.

Pull on rod handle and remove trunnion from frame bracket and drive belt from PTO clutch pulley.

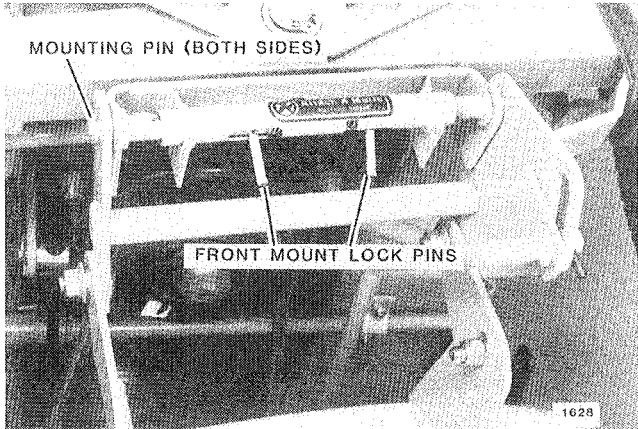
Move left and right spring loaded front mounting pins to center of tractor and into lock position. Lower front mount all the way down.



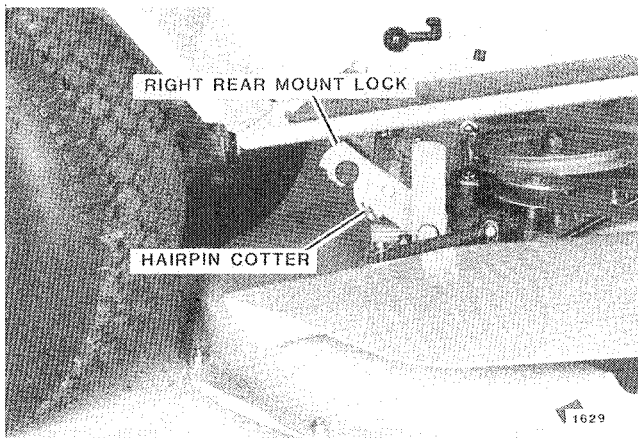
**Trunnion and Drive Belt**

Remove left and right rear mower attaching hairpin cotters. Rotate locks forward, lift up on rear of deck and release rear mounts. Reinstall hairpin cotters in locks.

Turn front wheels all the way right. Slide mower out from under left side of tractor.



**Mower Front Mount**



**Mower Rear Mounts**

**OPERATION**

**IMPORTANT**

Every time mower is installed, check for proper operation of PTO clutch and brake. Adjustment of PTO is covered in tractor Operator's Manual. First time mower is used, or after installing a new mower drive belt, recheck belt tension after first 20 minutes of operation (allow belt to cool before checking tension).

**CAUTION**

30" mower can be equipped with a rear grass bagger attachment. This attachment is supplied with a special "high lift" blade. Never use high lift blade unless complete grass bagger is installed. Reinstall "standard" mower blade and steel chute extension whenever bagger is removed.

For best performance operate engine at full throttle. Use transmission to set tractor's 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.

Average lawns are usually cut at a height between 2 and 3 inches (5 to 7.6 cm). 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 or wet grass can be cut without difficulty by using a little care. Set mower in its highest cutting position and enter area in first gear. If necessary, take a cut one-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.

Under some unusual mowing conditions, mower may leave a "steak" 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. Incorrect tire pressures.
5. Striking only on turns indicates turns are being made too sharply.
6. On 36" mower only, if blades have been sharpened a number of times they may be too short to "overlap" each other, and must be replaced.

## MAINTENANCE AND STORAGE

### 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 blade(s) should be kept sharp and well balanced. To sharpen blade, remove mower from tractor. Remove blade attaching bolts or nuts from mower and remove blade. A 2" x 4" wood block may be placed between discharge opening and blade to "lock" it in position when loosening attaching hardware.

File or grind blade(s) 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 blade(s) with lift area (turned up section) facing mower deck.

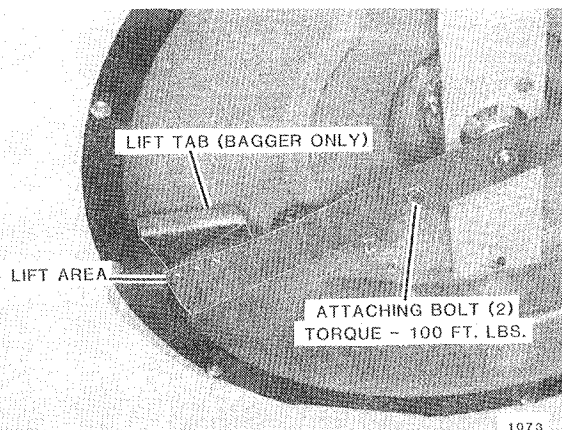
On 30" mower, tighten blade attaching bolts to a torque of 100 ft. lbs. (140 Nm).

On 36" mower, tighten blade nuts to a torque of 30-100 ft. lbs. (112-140 Nm).

Reinstall mower on tractor.

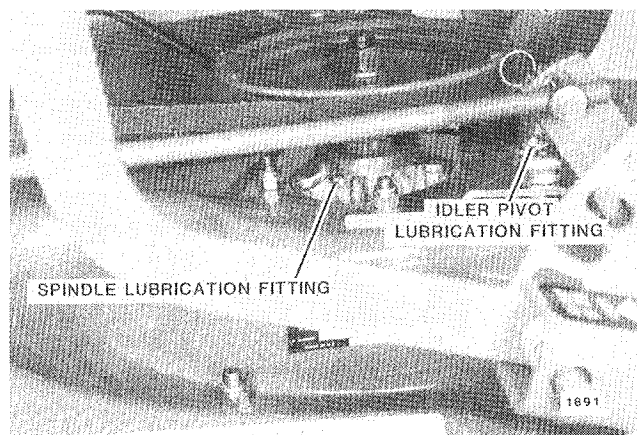
## LUBRICATION

Lubricate pivoting arms and levers after every 25 hours of operation with light machine oil applied directly to wear surfaces.

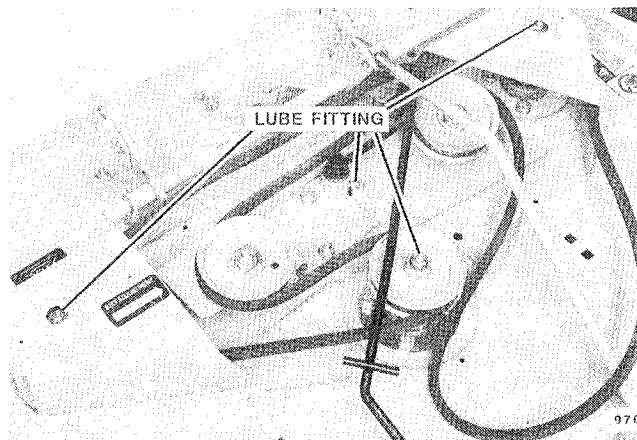


30" Mower Blade

Spindle bearings and idler pivot point require lubrication at 25 operating hour intervals. Use #2 multi-purpose lithium grease. Four to six pumps of a hand operated grease gun will normally fill spindle(s) after 25 hours of operation. One to two pumps will fill idler pivot. Stop pumping if resistance is felt.



30" Lube Fittings



36" Lube Fittings

## UNDERSIDE CLEANING

It is very important to clean underside of mower 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 cause of uneven cutting. Mower should be removed from tractor for cleaning.

## MOWER DRIVE BELT REPLACEMENT

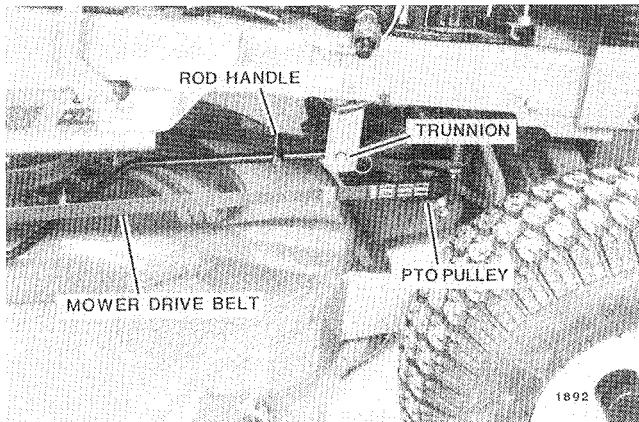
Be sure to purchase a genuine Toro Wheel Horse belt for replacement purposes as belt is designed specifically for each application.

Make sure engine is stopped and remove spark plug wire. Pull on rod handle, remove trunnion from frame bracket and belt from PTO clutch and mower pulleys.

On 36" mower only, remove right and left belt guards.

Remove drive belt from mower.

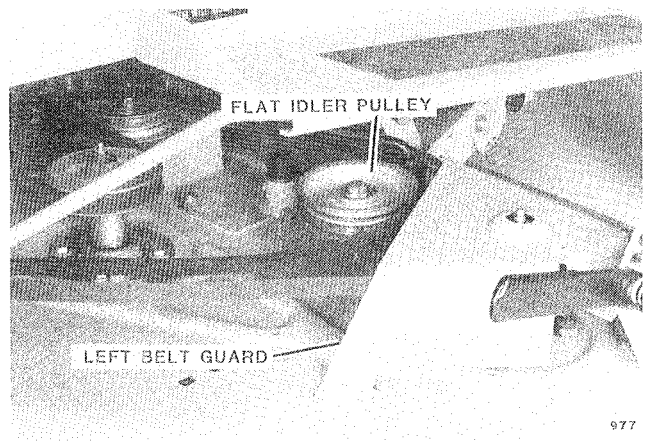
Install new belt in reverse order.



**30" Drive Belt Replacement**

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  
8111 Lyndale Ave. So.  
Bloomington, Minnesota 55420**



**36" Drive Belt Replacement**

## 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 tractor and engage mower for approximately 1 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.

## PARTS MANUAL ORDER FORM

Enter number shown on your attachment:

<b>MODEL</b>	
<b>SERIAL</b>	
<b>TORO Wheel Horse</b> 515 WEST IRELAND ROAD SOUTH BEND, INDIANA 46614 USA	

MAIL LABEL -- PLEASE PRINT CLEARLY

TO:

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Product information and specifications are shown herein as of the time of printing. Toro Wheel Horse 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