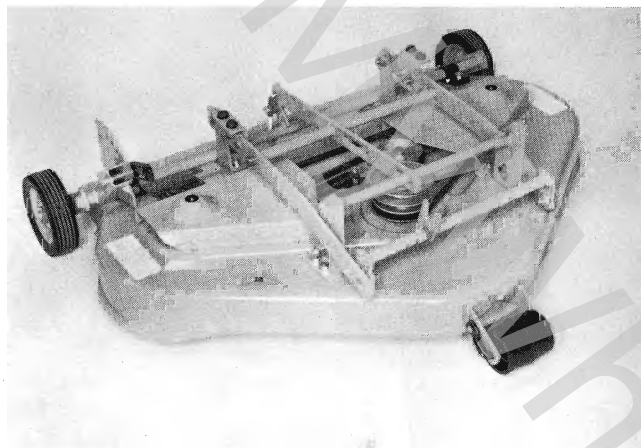
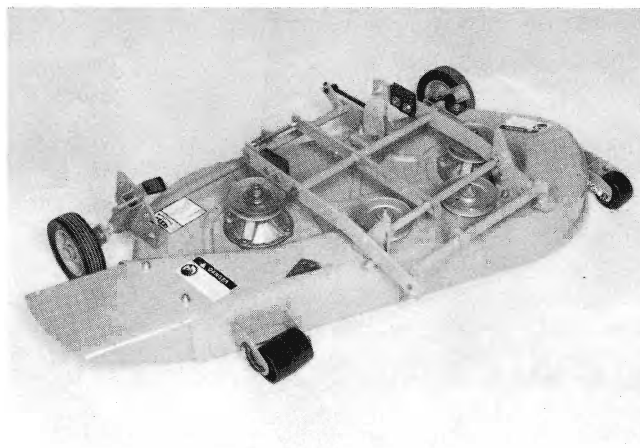


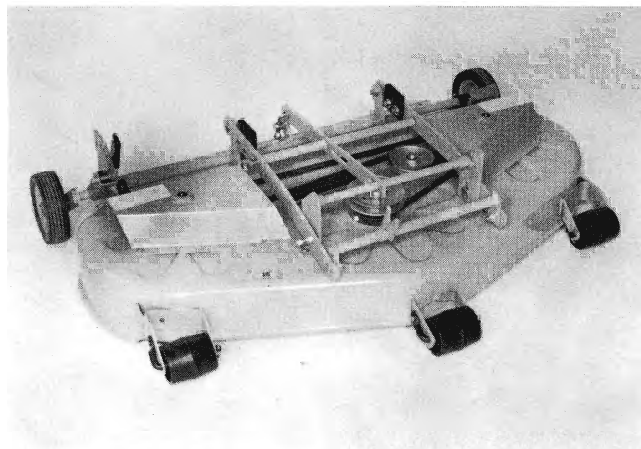
# OPERATING AND MAINTENANCE INSTRUCTIONS



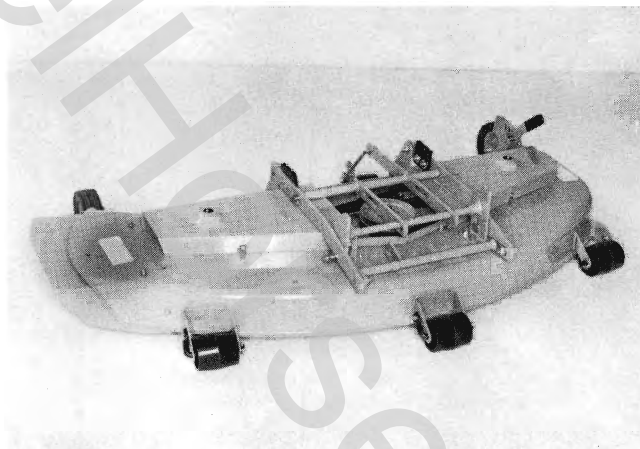
36 in. (92 cm) Rear Discharge Mower



37 in. (94 cm) Side Discharge Mower



42 in. (107 cm) Rear Discharge Mower



42 & 48 in. (107 & 122 cm) Side Discharge Mowers

 **Wheel Horse**

**300 & 400-SERIES  
MOWERS**

## VEHICLE IDENTIFICATION (VIN) NUMBER

A Vehicle Identification Number identifies your 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 the VIN plate is removed during repair operations it should always be replaced. For your reference, record below the number from the VIN plate on your attachment.



## INSTALLATION

### ATTACH HEIGHT CONTROL LEVER (Fig. 1A)

The height control lever must be attached to Rear Discharge 42 in. (107 cm) Mower, as described below. All other 300/400 Series Mowers are shipped completely assembled.

Raise rear of mower and support deck on both sides, using a double thickness of 2 x 4 wood blocks. Remove two bolts and nuts securing lift quadrant to right rear corner of mower deck (Fig. 1A). Remove clamp holding gage wheel support rod. Install height control lever and spring as shown in Fig. 1A. Slip welded pin, on height control lever, into guide hole in gage wheel support bracket. Position quadrant to hold height control lever in place and replace clamp, bolts and nuts. Tighten nuts securely and remove 2 x 4 blocks.

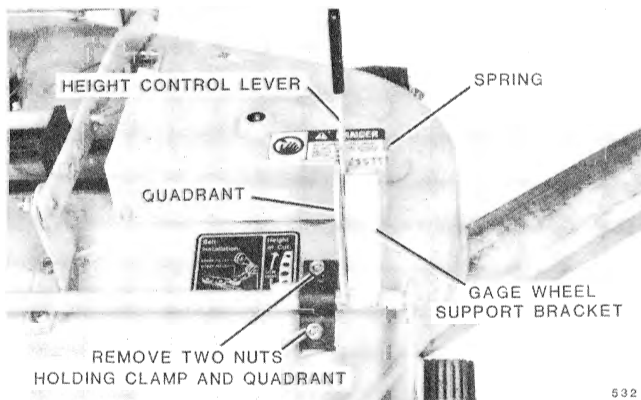


FIG. 1A. Install Height Control Lever

### POSITION MOWER UNDER TRACTOR (Fig. 1B)

#### IMPORTANT

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

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

Check that mower spindles have been lubricated. Use a pressure grease gun and #2 multipurpose lithium grease. Grease fittings are on top of spindles on three-blade mowers and on base of spindle housings on two-blade mowers.

Place mower along right side of tractor. Position height control lever in lowest possible position (notch closest to front) Fig. 1B.

Turn front wheels of tractor fully left. Raise tractor attachment lift.

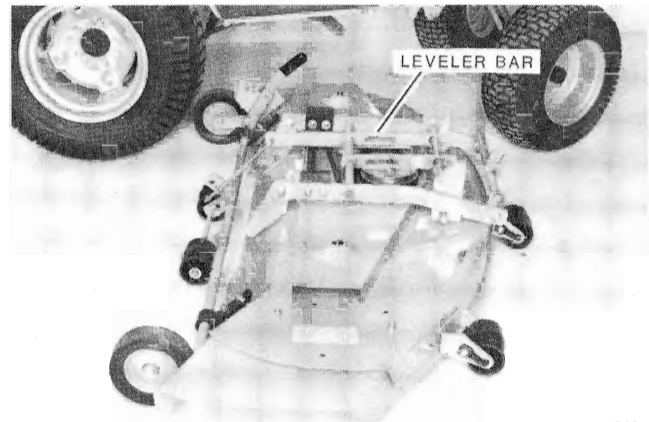


FIG. 1B. Position Mower to Right of Tractor

Slide mower under tractor until mower leveler bar is directly under right side of tractor frame.

### ATTACH MOWER TO TRACTOR (Fig. 2-4)

Lower tractor attachment lift. Align lift bar and pin (attached to tractor) with slot in mower leveler bar (Fig. 2).

Push mower in until it is centered under tractor.

Open mid Tach-a-matic hitch by pushing release button and pulling latch forward (Fig. 3).

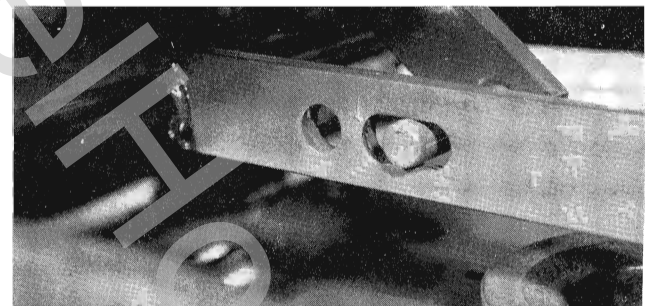
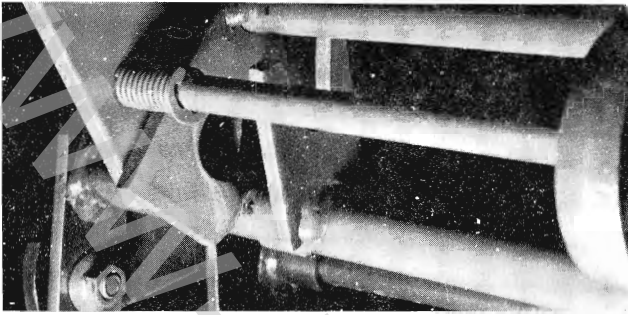


FIG. 2. Align the Pin with the Slot



FIG. 3. Open the Mid Tach-a-matic Hitch

Adjust mower hitch shaft so fork faces upward. Adjust mower so welded spacers are positioned between tractor hitch plates (Fig. 4).



**FIG. 4. Align Fork with Shaft**

Lift mower with tractor attachment lift. NOTE: When using a manual attachment lift, be sure lift handle "locks" in the raised position.

Close Tach-a-matic hitch by moving latch rearward.

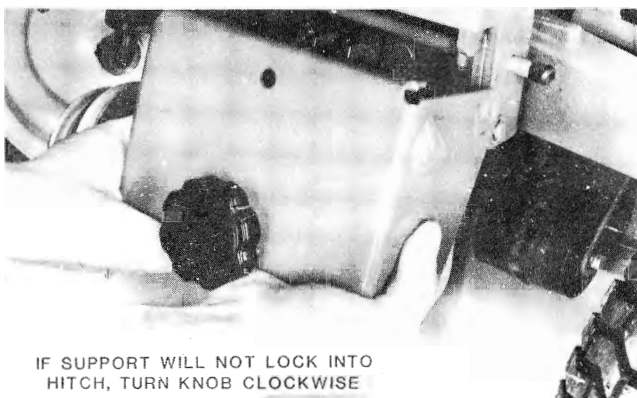
**INSTALL FRONT PULLEY SUPPORT (Fig. 5 & 6)**



**FIG. 5. Open Front Tach-a-matic Hitch**

Open front Tach-a-matic hitch by pushing release button and pulling forward on latch handle (Fig. 5).

Insert shaft of pulley support assembly into hitch slots and push latch handle rearward to lock latch (Fig. 6).



**FIG. 6. Install Pulley Support**

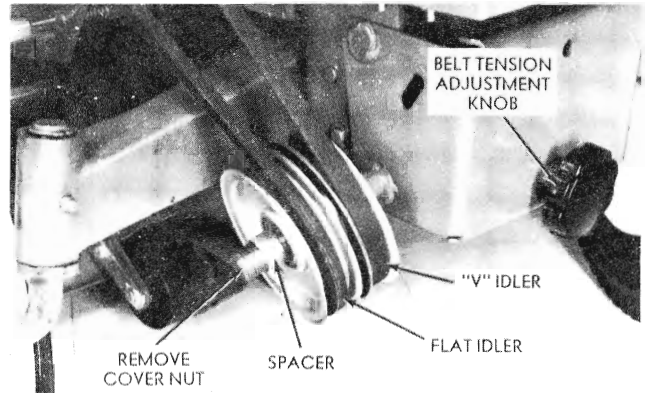
**INSTALL DRIVE BELT AND COVER (Fig. 7, 8, 9 and 10)**

Turn belt tension adjustment knob all the way clockwise.

For 36, 42 and 48 inch mowers, install drive belt in groove of mower pulley and position belt strands around idler pulleys, with inside strand in "V" pulley and outside strand making a back bend around flat idler (Fig. 7).

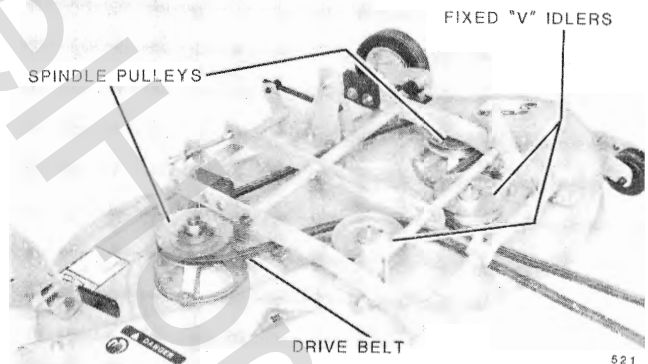
For 37 inch mowers, install belt through front of mower deck around spindle pulleys with "Wheel Horse" name and "Part Number" showing (Fig. 8). Bring outside belt between mower deck fixed "V" idlers. Continue belt strands around adjustable "V" idler pulleys (Fig. 9).

Place drive belt on **inside** groove of PTO clutch pulley (refer to "Attachment Belt" section in tractor Operator's Manual).



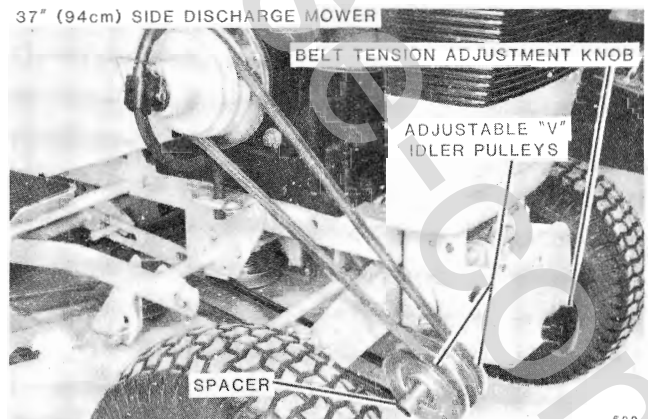
**FIG. 7. Install Drive Belt**

37" (94cm) SIDE DISCHARGE MOWER



**FIG. 8. 37 inch (94 cm) Mower Drive Belt**

37" (94cm) SIDE DISCHARGE MOWER



**FIG. 9. 37 inch (94 cm) Mower Adjustable Pulleys**



**FIG. 10. Install Pulley Support Cover**

Holding pulleys in against thrust collar, adjust drive belt by turning adjusting knob counterclockwise until top strand of drive belt can be depressed approximately 1 in. (2.5 cm) under moderate finger pressure at a mid-point between pulleys.

Remove pulley cover retaining nut and install cover making sure to insert cover pilot pin in slot of support assembly. Reinstall cover retaining nut and tighten. (Fig. 10).

## REMOVAL

Set mower gage wheels in lowest cutting position and lower mower with tractor lift lever. Turn front wheels all the way to the left.

Turn belt adjustment knob clockwise all the way to loosen belt and remove belt from mower pulley.

Push mid-hitch lock release button in and open latch, releasing mower hitch shaft.

Slide mower right until lift bar pin comes out of slot in leveler bar.

Raise tractor lift lever and slide mower out from under tractor.

Remove drive belt from PTO clutch pulley. Remove pulley support assembly by pushing front hitch lock release button in and opening latch. Drive belt need not be removed from pulley support assembly.

## 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).

1. Disengage tractor PTO clutch and start engine. Lift mower with tractor lift to remove weight of mower from gage wheels. **Note:** Never stand on mower.

2. Move mower height control lever to hole on quadrant corresponding to desired cutting height. This can be set from 1½ to 3½ in. (4 to 9 cm) in ½ in (1.2 cm) intervals. Recommended cutting height is 2-3 in. (5-7.6 cm) for most applications.

3. Lower mower and set engine speed to full throttle. Engage PTO clutch. Regulate ground speed with transmission to 2-3.5 mph (3.2-5.6 km/h)\* for best cutting results on average lawns.

Uneven cutting often results from excessive ground speed. To correct, reduce ground speed with transmission while maintaining full throttle setting.

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



### WARNING



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.

## CHECKING MOWER LEVEL

For optimum efficiency, level of mower should be checked at time of initial installation and periodically as a check to see if alignment is maintained.

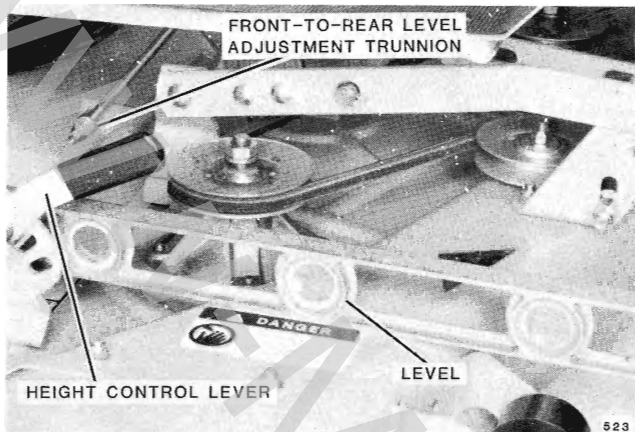
Position tractor on a level floor, with tires properly inflated (see tractor Owner's Manual). Place height control lever pin in center hole of quadrant and lower mower.

Place a level on a flat area of mower deck so level runs in same direction as footrests.

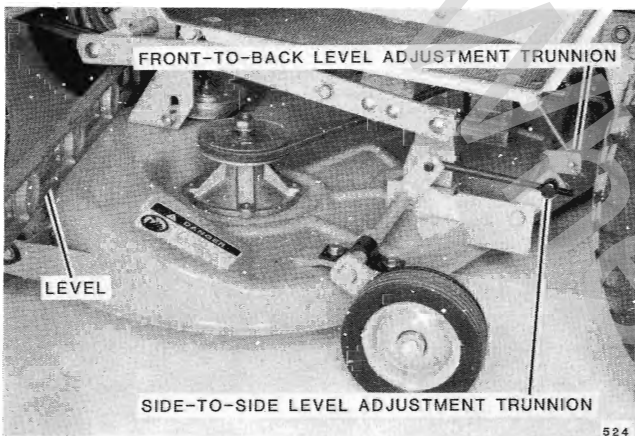
Adjust until mower deck is level from front to back with adjustment nut on level adjustment rod (Figs. 11, 12, 13, 14, 15 and 17) then **back nut off one (1) complete turn** which will lower front of mower slightly. **Note: Trunnion must always be installed in hole nearest to gage wheel support shaft.**

The 37 inch (94 cm) mower has a side-to-side level adjustment rod. Place a good quality level across a flat surface of mower deck, with tractor on a smooth level surface. If mower deck is not level from side-to-side, block mower up or raise it with tractor lift to relieve weight from mower gage wheels. Remove hairpin cotter and adjust trunnion indicated in Figure 12, to change length of rod — shortening length of rod will raise left side of mower deck.

\*Average walking speed is 2.5 mph (4 km/h).



**FIG. 11. 37 inch (94 cm) Mower Front-to-Back Leveling**

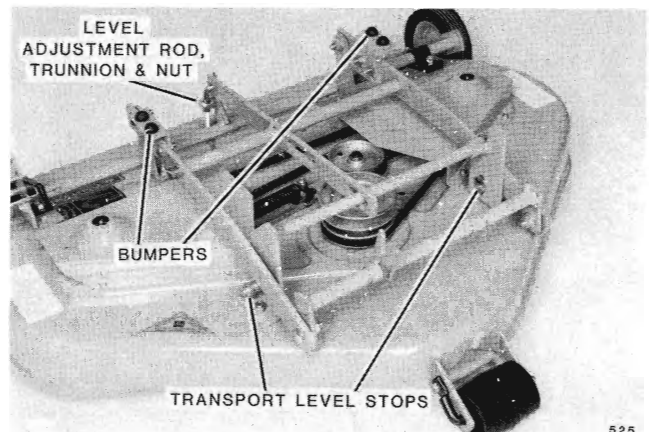


**FIG. 12. 37 inch (94 cm) Mower Side-to-Side Leveling**

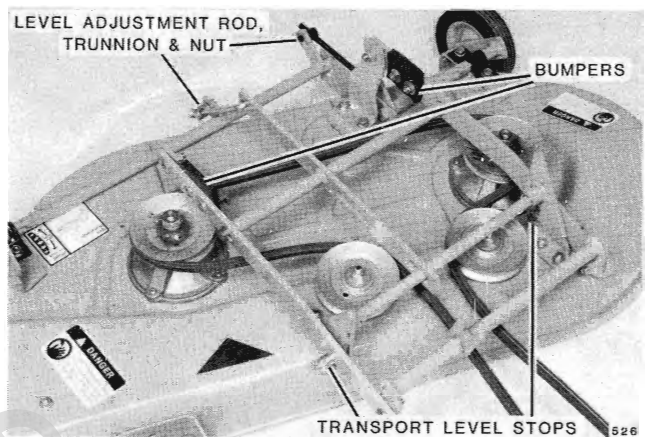
Under some unusual mowing conditions, mower may leave a "streak" of uncut grass, which can be caused by any following condition:

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 km/h), or less if necessary.
4. Streaking only on turns indicates turns are being made too sharply.
5. If blades have been sharpened a number of times, they may now be too short to "overlap" each other, and must be replaced.

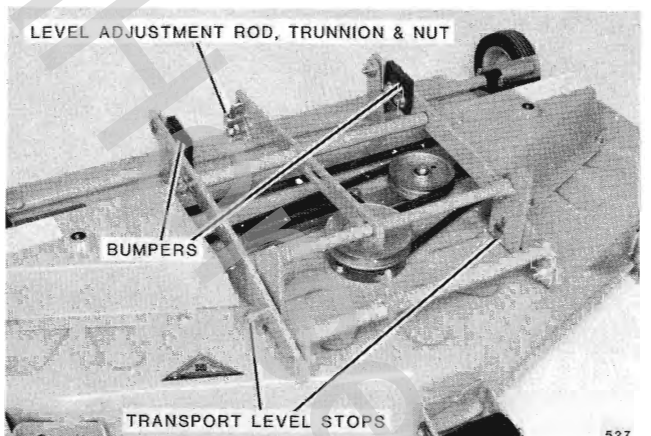
If streaking persists after above possibilities have been eliminated as cause, adjust mower until deck is level, then turn adjustment nut "in" one complete turn, to shorten level adjustment rod and slightly raise front of mower.



**FIG. 13. 36 in. (92 cm) Mower Adjustments**



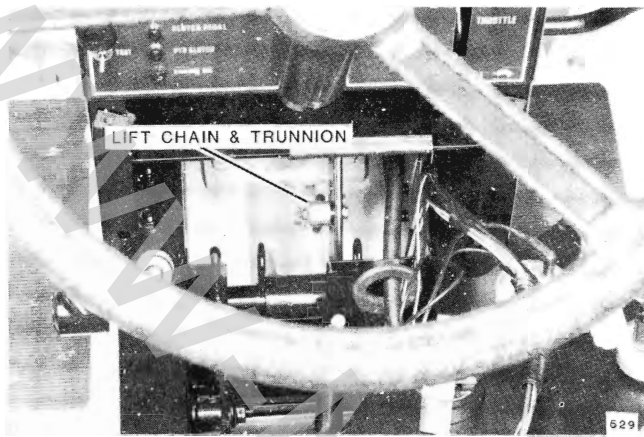
**FIG. 14. 37 in. (94 cm) Mower Adjustments**



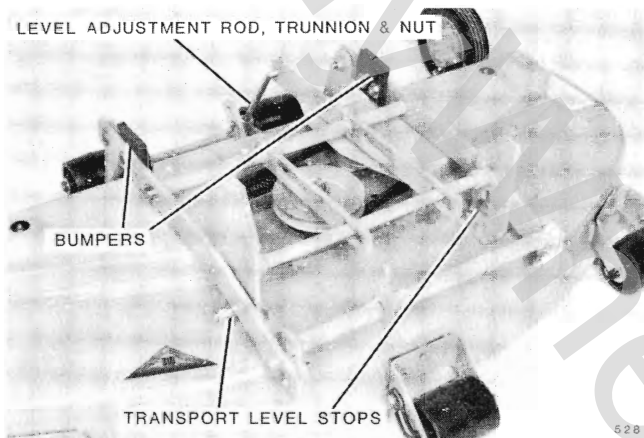
**FIG. 15. 42 in. (107 cm) Rear Discharge Mower Adjustments**

### **TRACTOR LIFT BAR — TRUNNION AND LIFT ROD ADJUSTMENT**

This adjustment involves parts located on tractor (Fig. 16). Trunnion on lift chain should be adjusted so that bumpers on draft bars of mower suspension come in contact with tractor footrests when mower is fully raised, with trunnion stud in outer hole of tractor lift lever.



**FIG. 16. Tractor Lift Bar Trunnion and Lift Rod Adjustment**



**FIG. 17. 42 in. (107 cm) and 48 in. (122 cm) Side Discharge Mower Adjustments**

#### TRANSPORT LEVEL STOP ADJUSTMENT

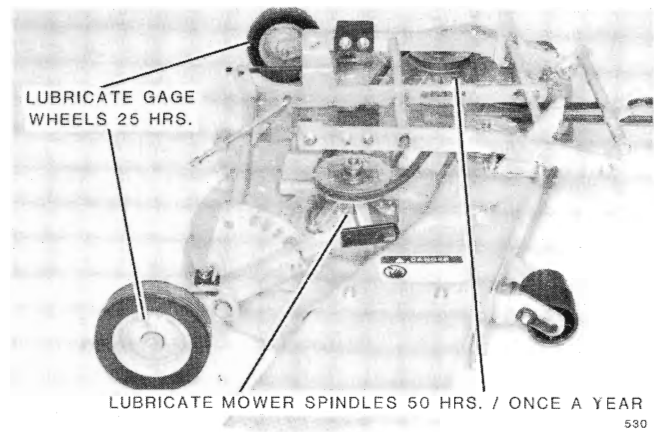
For normal operation mower level stops should be adjusted so that carriage bolt heads are set at bottom of bracket slots. If mower is not level in transport position, level stops may be adjusted by moving them in bracket slots as required. (Fig. 17).

## MAINTENANCE AND STORAGE

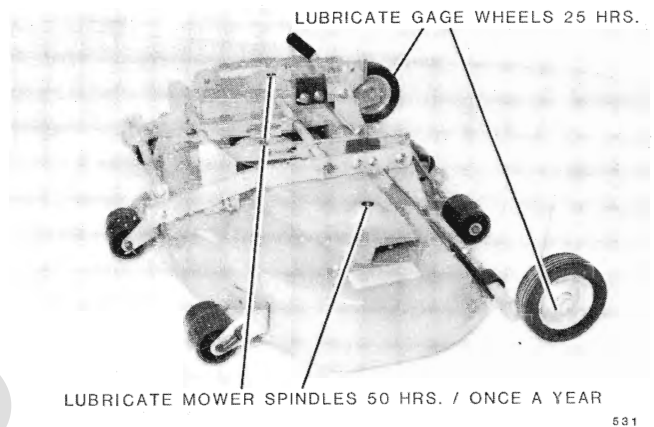
### LUBRICATION

Mower spindle bearings should be lubricated at 50 operating hour intervals. Use a pressure type grease gun and #2 multi-purpose lithium grease to lubricate spindle bearings. Four to six pumps of a hand type grease gun will usually fill each spindle after 50 hours use. Grease zerks are conveniently located at top of spindle shafts on three-blade mowers and at base of spindle housings on two-blade mowers for lubrication. Lubricate mower gage wheels every 25 hours.

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



**FIG. 18. Two Blade Mower Lubrication Fittings**



**FIG. 19. Three Blade Mower Lubrication 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 tractor and invert mower. Remove blade attaching nuts and washers from end of spindles and remove blades. A short piece of 2 x 4 lumber 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 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).

## 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.

## REPLACEMENT BELTS

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

## MOWER DRIVE BELT REPLACEMENT (Fig. 7, 8, 9 and 10)

Turn belt adjustment knob all the way clockwise.

Remove belt cover retaining nut and remove cover being careful not to lose pulley cover spacer. Reinstall nut finger tight to avoid possibility of pulleys and spacers coming off.

Remove belt from PTO, mower and idler pulleys and examine condition of pulleys making sure pulley grooves and bearings are in good condition.

Install replacement belt and adjust tension. Refer to instructions for Fig. 7, 8, 9 and 10.

## SPINDLE BELT REPLACEMENT (36, 42, 48 inch only)

Remove mower from tractor.

Remove two side belt covers and note routing of belt. Remove belt. Check to be sure all pulleys work freely. Install a new belt in accordance with belt diagram located on mower. Replace both belt covers.

## 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 "Wheel Horse Red", 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.

- 6 -

A separate parts manual for your Wheel Horse attachment can be obtained by completing the form below and sending it, along with a check or money order, to the address below.

## PUBLICATIONS

WHEEL HORSE PRODUCTS, INC.

P. O. Box 2649

South Bend, Indiana 46680

## ATTACHMENT PARTS MANUAL ORDER FORM

Enter number shown on your attachment:

<b>WHEEL HORSE PRODUCTS</b>	
SOUTH BEND, INDIANA 46680	
ID NUMBER	<input type="text"/>
MADE IN USA	<input type="text"/>

I have enclosed a check or money order for \$1.00 for each manual requested.

MAILING 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.



**Wheel Horse**