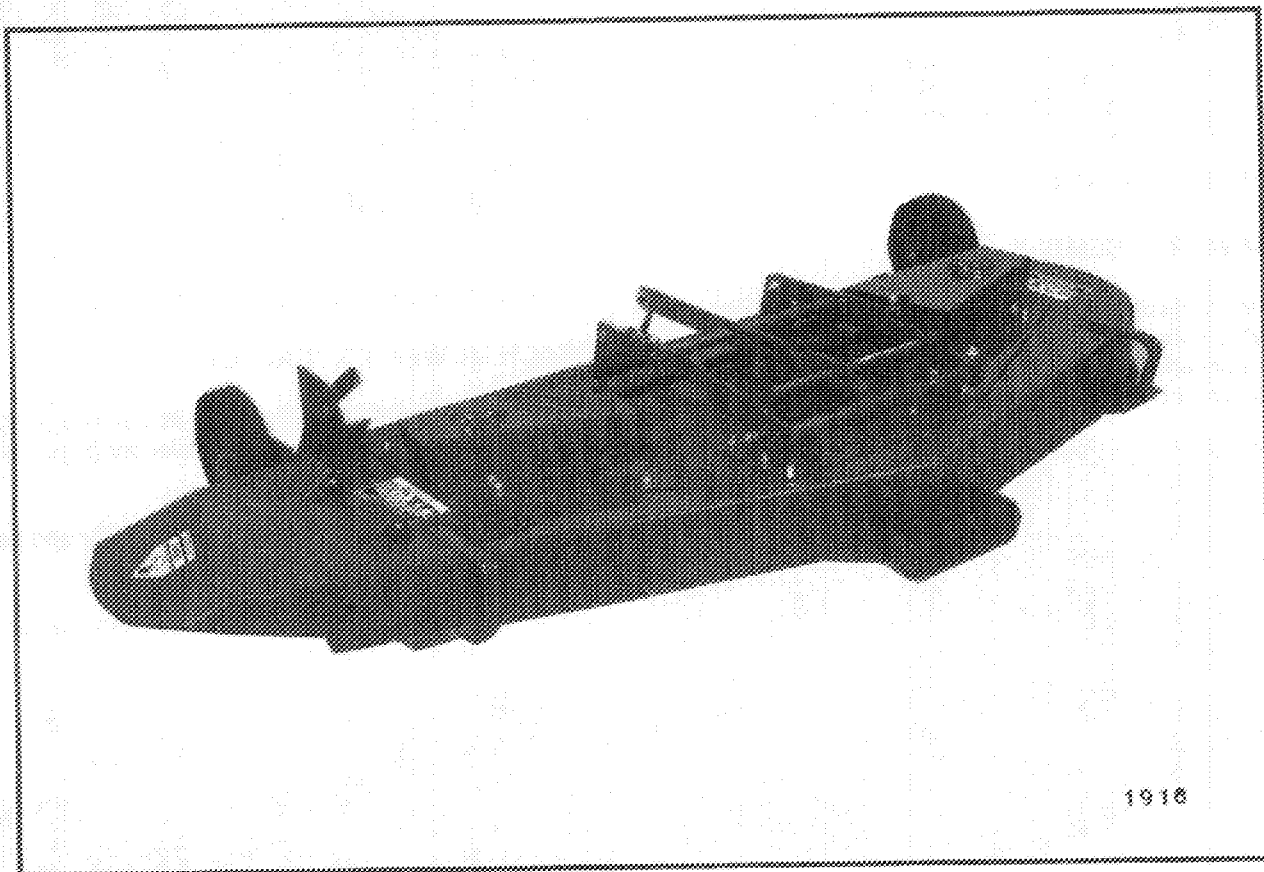


Operating & Maintenance Instructions



60 in. (152 cm) Side Discharge Mower

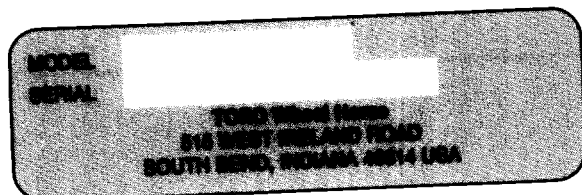
500-Series
Garden Tractor
Mowers



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



INSTALLATION

MOWER ASSEMBLY

Install discharge chute to mower using two 3/8-16 x 3 3/4 bolts, springs and locknuts. Hooks on springs must be positioned as shown in Figure 1. Check that discharge chute moves freely up and down with spring down pressure.



FIG. 1. Install Discharge Chute

POSITION MOWER UNDER TRACTOR

IMPORTANT

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

Blade Nut Torque 102-170 ft. lbs. (143-238 Nm)

Check that mower spindles have been lubricated. Use a pressure grease gun and #2 multi-purpose lithium grease. Grease fittings are on sides of spindles.

⚠ 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.

Place mower along right side of tractor. Position height control lever in lowest position (Fig.2).

Turn front wheels of tractor fully left. Raise tractor attachment lift. Slide mower under tractor until mower center leveler bar is directly under right side of tractor frame.

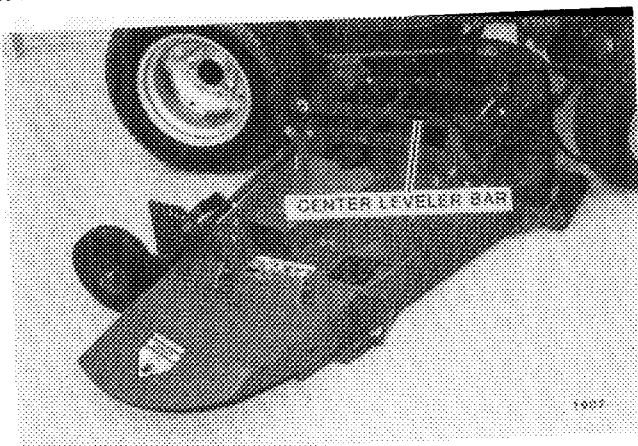


FIG. 2. Position Mower to Right of Tractor

ATTACH MOWER TO TRACTOR

Lower tractor attachment lift. Align lift bar and pin (attached to tractor) with slot in mower leveler bar (Figs. 2 and 3).

Push mower in until it is centered under tractor and front rod aligns with tractor hitch. (Fig. 4).

Open mid Attach-A-Matic hitch by pushing release button and pushing down on handle.

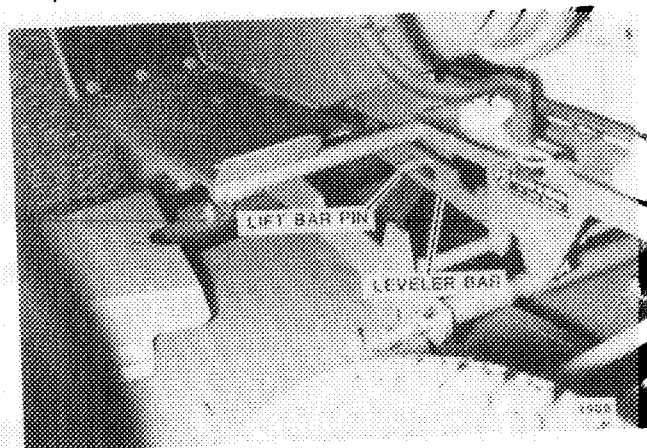


FIG. 3. Align the Pin with the Slot

Lift mower with tractor attachment lift. **NOTE:** If applicable, when using a manual attachment lift, be sure lift handle "locks" in raised position.

Close Attach-A-Matic hitch by pulling up on handle (Fig. 5).

INSTALL FRONT PULLEY SUPPORT

Open front Attach-A-Matic hitch by pushing release button and pulling forward on latch handle (Fig. 6).

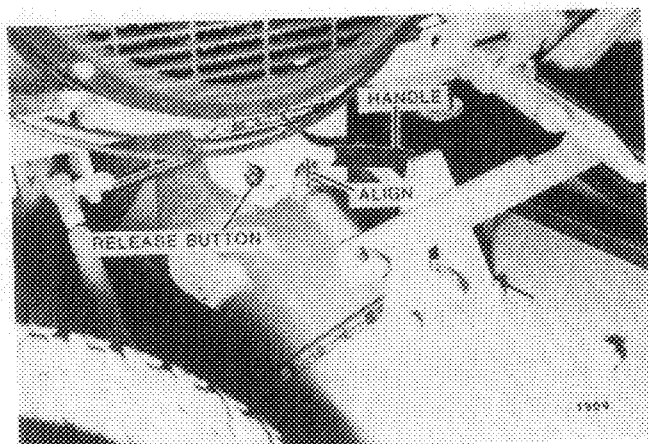


FIG. 4. Open the Mid Attach-A-Matic Hitch

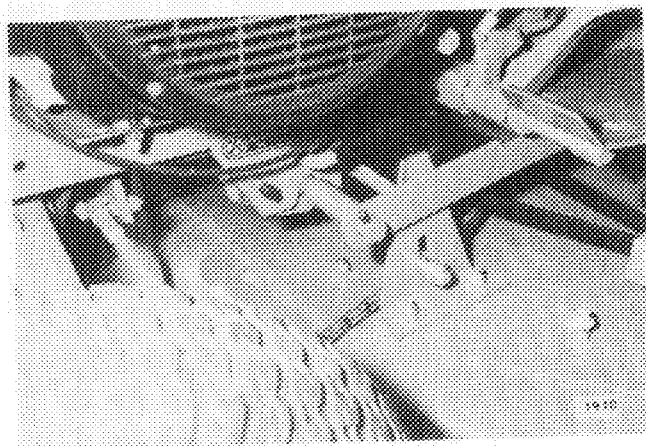


FIG. 5. Secure Center Hitch



FIG. 6. Open Front Attach-A-Matic Hitch

Insert shaft of pulley support assembly into hitch slots and push latch handle rearward to lock latch (Fig. 7).

INSTALL DRIVE BELT AND COVER

Turn belt tension adjustment knob all the way clockwise (Fig. 8).

Position belt strands around idler pulleys, with inside strand in "V" pulley and outside strand making a back bend around

flat idler (Fig. 8). Place drive belt on inside groove of PTO pulley as outlined in Tractor Operator's Manual.

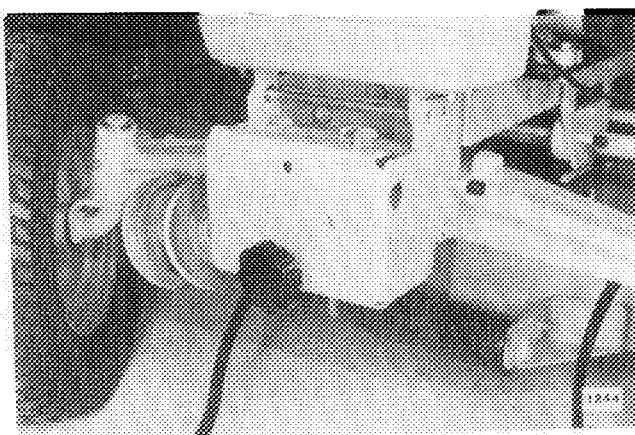


FIG. 7. Install Pulley Support

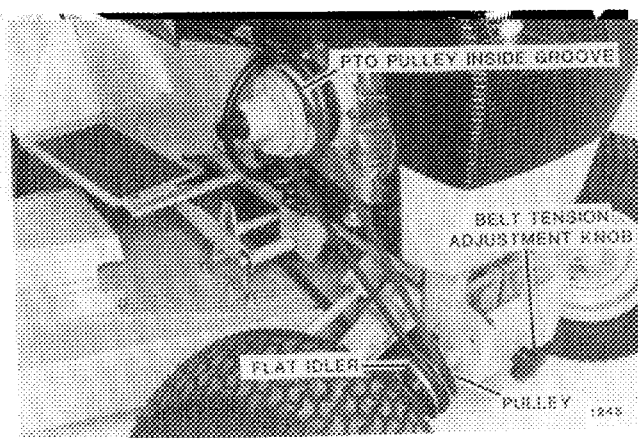


FIG. 8. Drive Belt Routing

Adjust drive belt tension by turning adjusting knob counter-clockwise until top strand of drive belt can be depressed approximately 1 inch (2.5 cm) under moderate finger pressure at a mid-point between pulleys (Fig. 8).

Install cover with bolt and nut (Fig. 9).

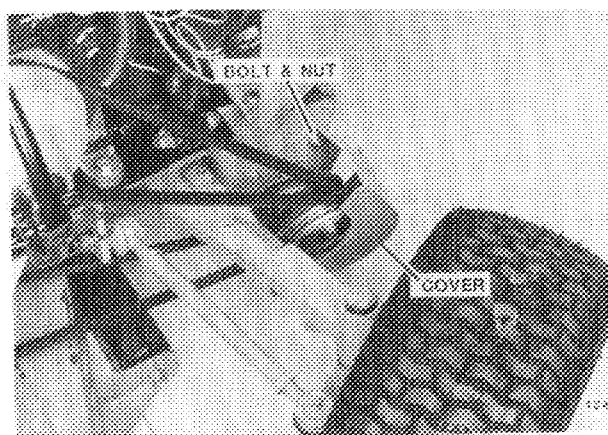


FIG. 9. Install Pulley Support Cover

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 level adjustment is maintained.

MOWER LEVEL

Position tractor on a level surface. Adjust all four tires to 12 lbs. pressure. Place mower height control lever in middle cutting position (Fig. 10).

Turn mower blades front-to-back. Adjust distance from surface to blade tips equal to 1/8 inch front high (Figs. 10 and 11).

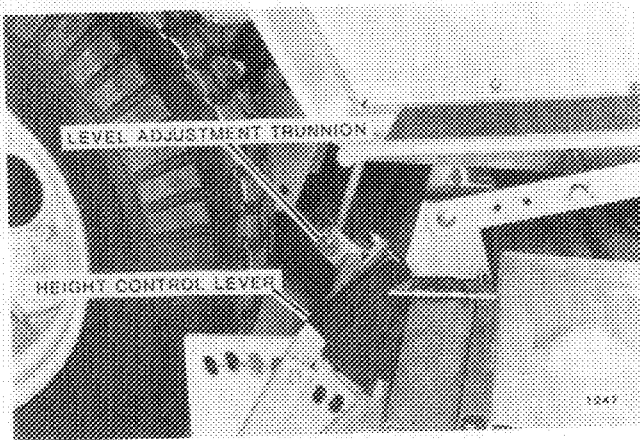


FIG. 10. Level Adjustment

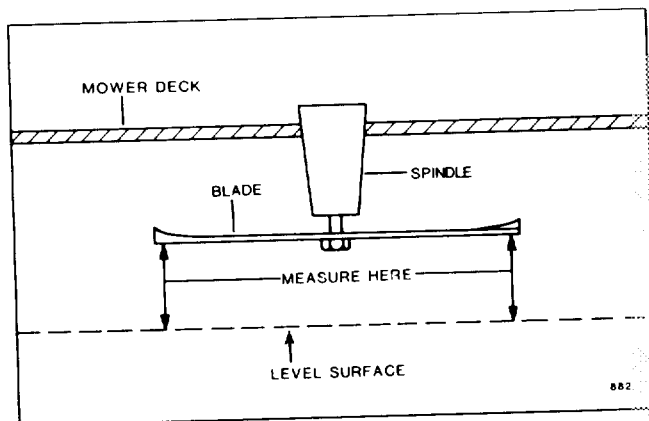


FIG. 11. Mower Level Measurement

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 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.

TRACTOR LIFT BAR - TRUNNION AND LIFT ROD ADJUSTMENT

This adjustment involves parts located on tractor (Fig. 12). Trunnion on lift chain should be in rear hole of tractor lift lever.

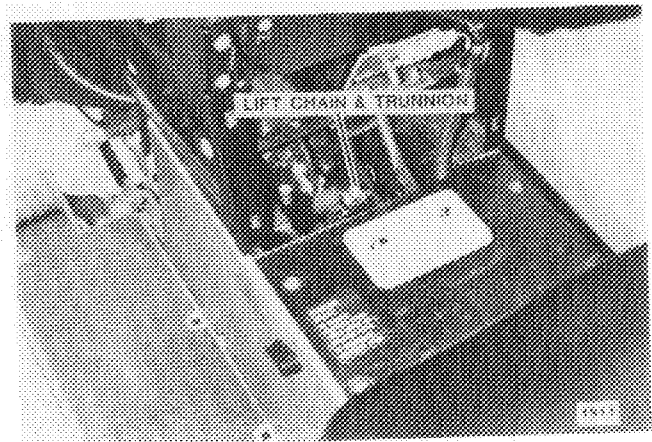


FIG. 12. Tractor Lift Bar Trunnion and Lift Rod Adjustment

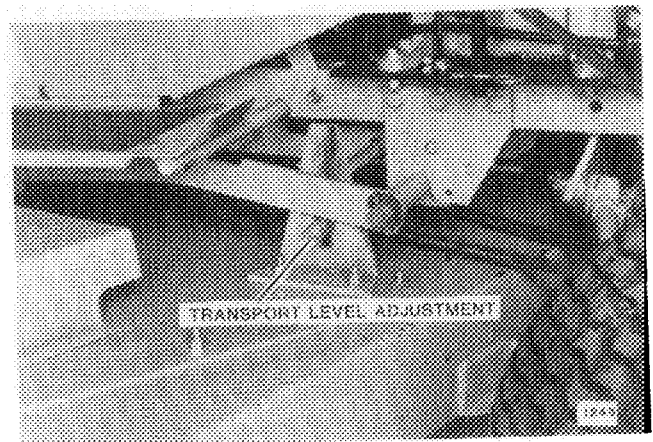


FIG. 13. Transport Level Adjustment

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 fully raised position, level stops may be adjusted by moving them in bracket slots as required. (Fig. 13).

REMOVAL

Raise tractor lift and set mower gage wheels in lowest cutting position. Turn front wheels all the way left.

Turn drive belt tension adjustment knob clockwise all the way.

Remove drive belt from PTO clutch pulley as outlined in Tractor Operator's Manual. 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.

Push mid-hitch lock release button in and open latch. Lower tractor lift and release mower hitch shaft.

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

Raise tractor lift and slide mower out from under right side of tractor.

OPERATION



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.

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. Lower mower with tractor lift to remove weight of mower from gage wheels.
NOTE: Never stand or rest your feet on mower.

2. Move mower height control lever to hole on quadrant corresponding to desired cutting height. This can be set for cutting heights between 1-1/2 and 4 in. (4 - 10cm). Recommended cutting height is 2 to 3 inches (5-7.6 cm) for most mowing situations.

3. Lower mower and set engine speed at full throttle. Engage PTO clutch. Regulate ground speed with transmission to 2 - 3.5 mph (3.2 - 5.6 kph)* for best cutting results on average lawns. Uneven cutting often results from excessive ground speed. To correct, reduce ground speed with transmission. **CAUTION:** Do not operate at 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 re-cut to normal height.

* Average walking speed is 2.5 mph (4 kph).

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 fittings are conveniently located on side of spindle housings (Fig. 14). Lubricate mower gage wheels every 25 hours.

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.

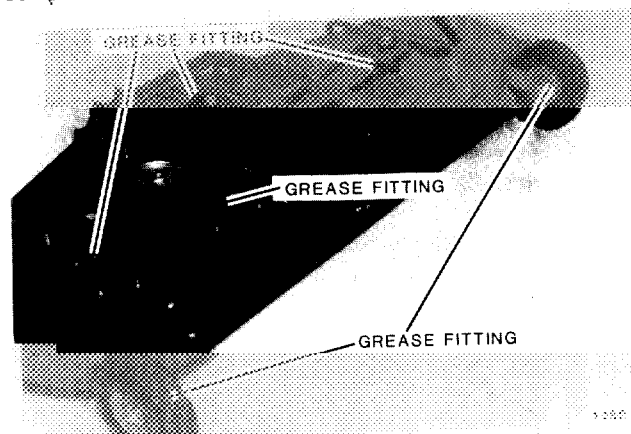
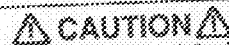


FIG. 14. Mower Lubrication Fittings

BLADE 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.

To obtain optimum mowing results, mower blades should be kept sharp and well balanced. To sharpen blades, remove mower from tractor, invert mower and remove blades. A piece of 2 x 4 lumber may be placed between side of mower deck and blade to "lock" it in position or use wrench between blade and spindle 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 expensive 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 102-110 ft. lbs. (143-238 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 Toro Wheel Horse belts for replacement purposes as these belts are designed specifically for each application.

MOWER DRIVE BELT REPLACEMENT

Remove belt cover from front hitch (Fig. 9). Turn belt adjustment knob all the way clockwise and remove belt from PTO as outlined in owner's manual (Fig. 8). Remove left hand belt cover (Fig. 15) and remove spindle belt from idler pulley, LH spindle pulley and center spindle pulley (Fig. 16). Remove drive belt from center spindle pulley.

Reverse procedure to install new drive belt. Position drive belt and spindle belt as shown in Figure 17.

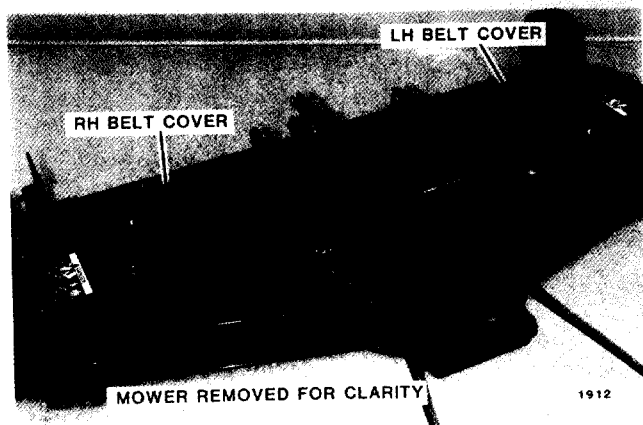


FIG. 15 LH and RH Belt Covers

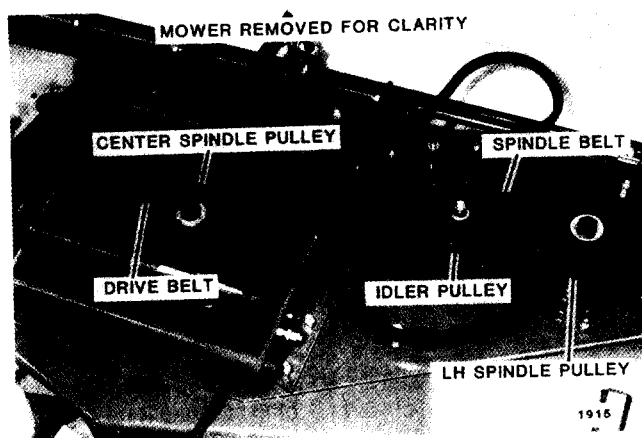


FIG. 16 Drive Belt Removal

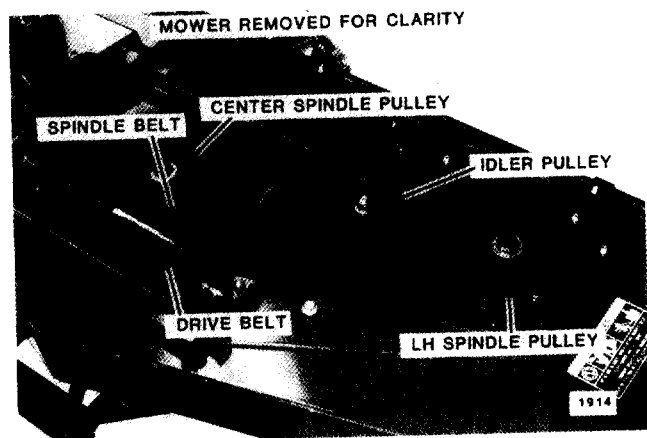


FIG. 17. Drive Belt Installation

SPINDLE BELT REPLACEMENT

Remove two side belt covers (Fig. 15) and note routing of belt (Fig. 18). Remove Belt. Check to be sure all pulleys work freely and install a new belt. Replace both belt covers.

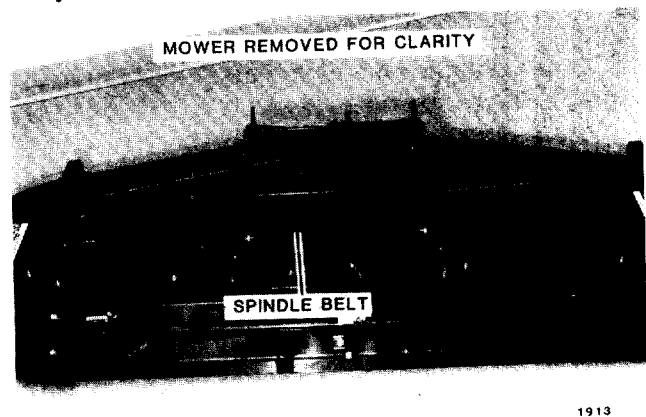


FIG. 18. Spindle Routing

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", paint available from your authorized Toro Wheel Horse 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
8111 Lyndale Ave. So.
Bloomington, Minnesota 55420**

PARTS MANUAL ORDER FORM

Enter number shown on your attachment:

MODEL	
SERIAL	
TORO Wheel Horse	
815 WEST IRLAND ROAD	
SOUTH BEND, INDIANA 46814 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.



Wheel Horse®
Tractors & Riding Mowers