FORM NO. 3315-433 (Rev. A)

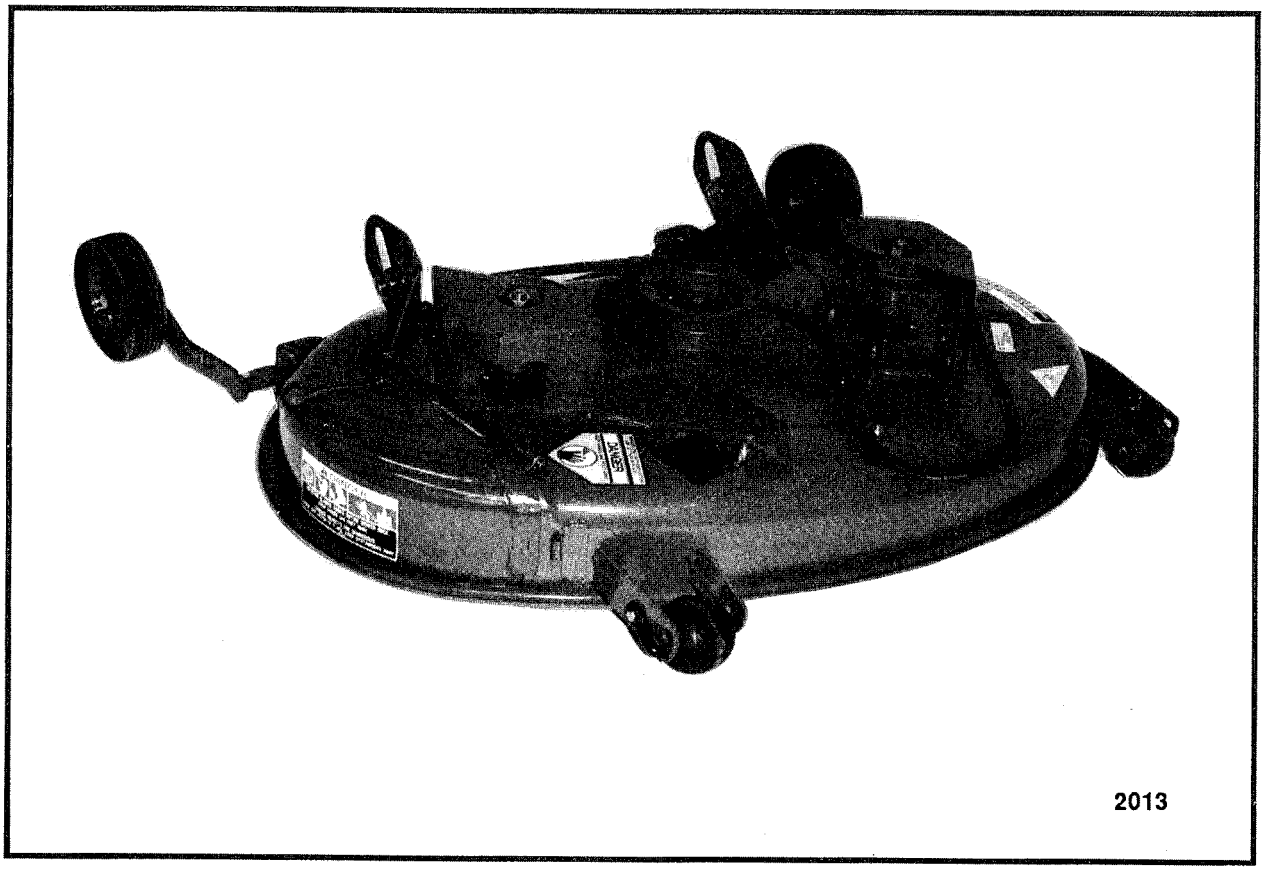
TORO®

MODEL NO. 78225 - 3900001 & UP

INSTALLATION INSTRUCTIONS

WHEEL HORSE®

38 in. Recycler® Mower - YT



2013

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⚠ SAFETY DECALS AND INSTRUCTIONS

Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.



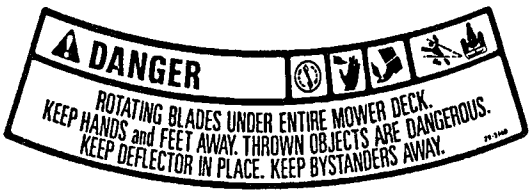
Under Discharge Cover/Cover
Part Number 66-6380



Right Side of Deck
Part Number 54-9220



Discharge Cover
Part Number 66-1340



Left Side of Deck
Part Number 79-3140

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 on your attachment.

MODEL _____

SERIAL NO. _____

INSTALLATION

IMPORTANT

Before installation, check that all mower blade bolts are tight:
Blade Bolt Torque - 50-70 ft. lbs. (68-95 Nm)

MOWER

Position mower on right side of tractor, turn front wheels all the way left (Fig. 1).

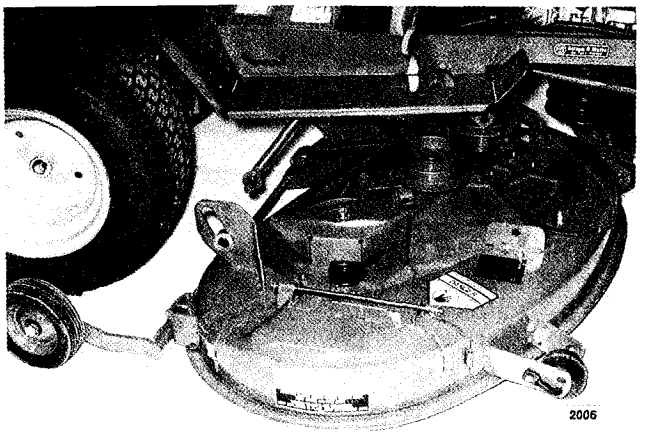


FIG. 1 Slide Mower Under Tractor

Raise attachment lift all way up in latched position. Slide mower under tractor and straighten front wheels. Turn Dial-A-Height knob all the way counterclockwise and lower attachment lift. Align left and right guide bushings with lift arm (Fig. 2). Slide mower to the left slightly to engage left hand bushing on left lift arm and then right hand bushing on right lift arm. Secure bushings to lift arms with flat washers and hairpin cotters (Figs. 2 & 3).

Connect right front link to mower deck with cotter pin (Fig. 2). Connect front link to lift arm with washer and hairpin cotter. Raise mower to transport position. Connect left rear link to mower deck with cotter pin (Fig. 3). Connect rear link to lift arm with washer and hairpin cotter. Install drive belt and level mower.

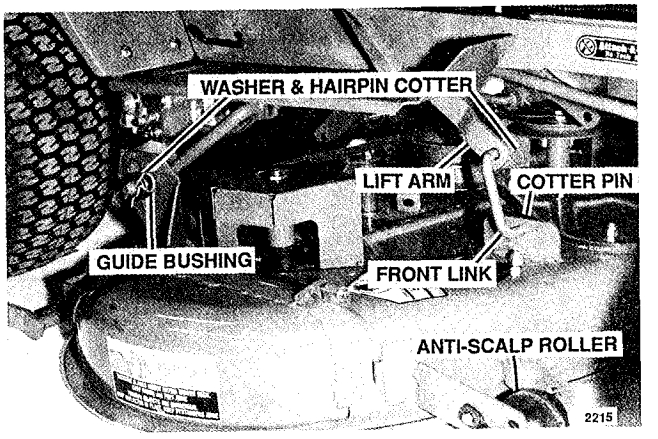


FIG. 2 Right Hand Mower Attachment

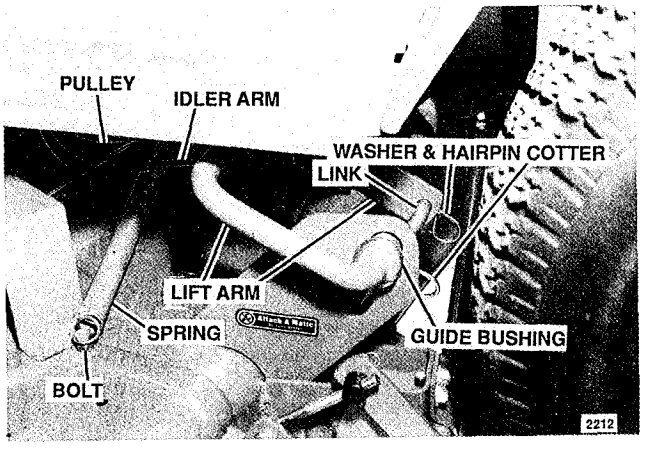


FIG. 3 Left Hand Mower Attachment

DRIVE BELT

Refer to Dial-A-Height height of cut decal located on hoodstand to the left of steering column (Fig. 4). Set height indicator at bottom of adjustment. Make sure spring is attached to pulley idler arm and deck bolt (Fig. 3). Make sure drive belt is seated in spindle pulleys, pull on idler pulley and install belt on PTO pulley (Fig. 5).

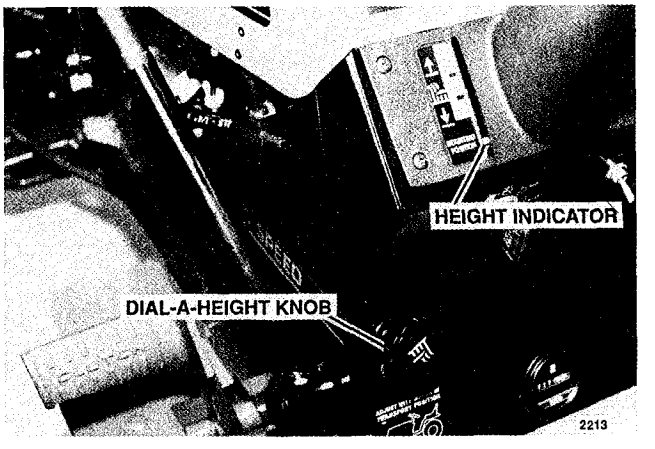


FIG. 4 Mower Cutting Height Indicator

NOTE: If mower cutting height is changed, drive belt may have to be repositioned in grooves of PTO pulley.

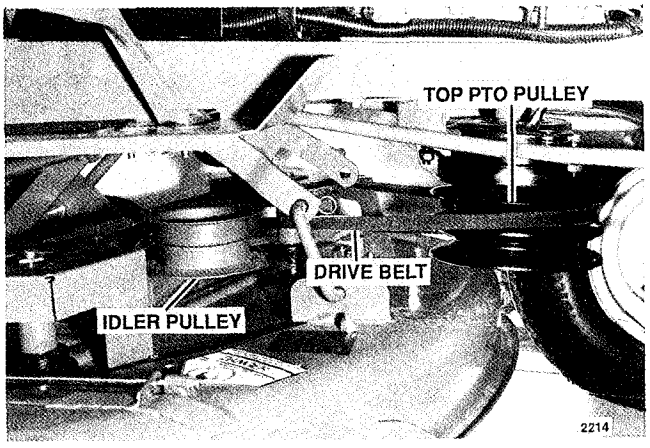


FIG. 5 Install Drive Belt

ADJUSTMENTS

⚠ DANGER ⚠

Keep all shields and mower discharge chute or Recycler® discharge cover 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

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 indicator is at desired height (Fig. 4). Lower attachment lift.

Indicator also shows the proper PTO belt pulley groove to use. A double groove PTO pulley allows the operator to reduce belt misalignment when using mower cutting heights of 3/4" thru 4". Upper pulley is used for typical 2" thru 4" cutting heights. Lower pulley is used for low setting heights of 3/4" thru 2 1/2". Declutch PTO when height setting is outside specified range of PTO pulley being used e.g., when lifting to transport height with belt in lower PTO pulley.
Note: To cut below 1 1/2" cut, move Anti-Scalp Roller to top hole (Fig. 2).

LEVEL MOWER

When mower height is set between 3" and 4", mower is suspended from tractor. There is one side-to-side adjustment procedure on the frame for this cutting height range.

When mower height is set between 3/4" and 3", mower rests on gauge wheels. There is one side-to-side adjustment procedure and one front-to rear adjustment procedure for this cutting height range.

Park tractor on smooth level surface and check tires for proper inflation pressure - 12 PSI (.85 kg/cm²) before leveling mower.

SIDE-TO-SIDE (3" To 4" Range)

Raise attachment lift all the way up in latched position. Turn blades side-to-side. Loosen adjustment bolt on one side and rotate hanger bar to raise or lower mower so that distance between right and left blade tip ends and surface is the same (Figs. 6 & 7). Retighten adjustment bolt. If hanger is rotated to end of adjustment on one side and mower is still not level, adjust opposite side.

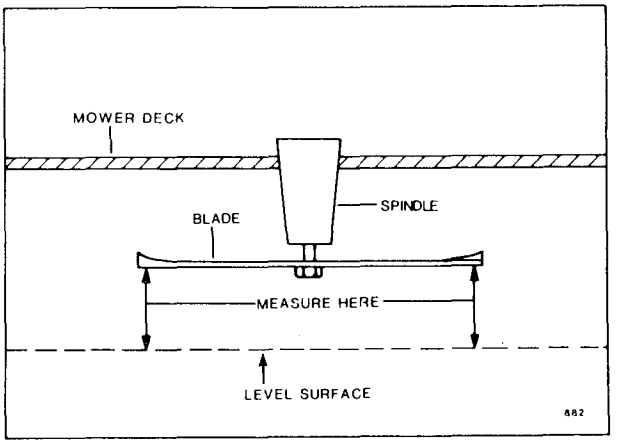


FIG. 6 Blade Level

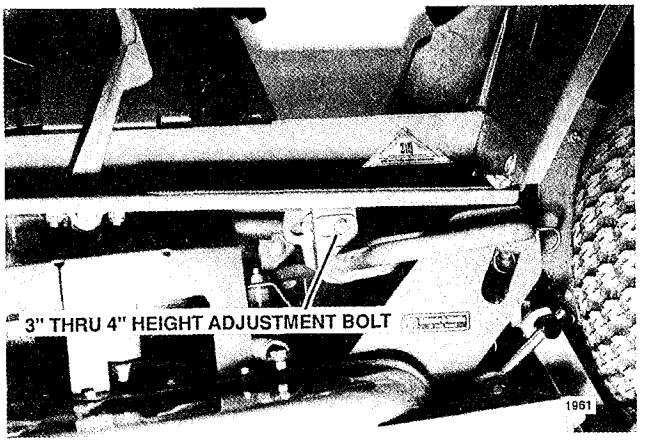


FIG. 7 Side-To-Side Adjustment (3" - 4" Range)

SIDE-TO-SIDE (3/4" To 3" Range)

Set mower near middle cutting height position or near desired cutting height. Make sure both gauge wheels are on ground. Turn blades side-to-side. Adjust gauge wheel trunnion so that distance between right and left blade tip ends and surface is the same (Figs. 6 & 8). Support rear of mower with wooden block to relieve pressure on trunnion and remove wood block after trunnion is reinstalled.

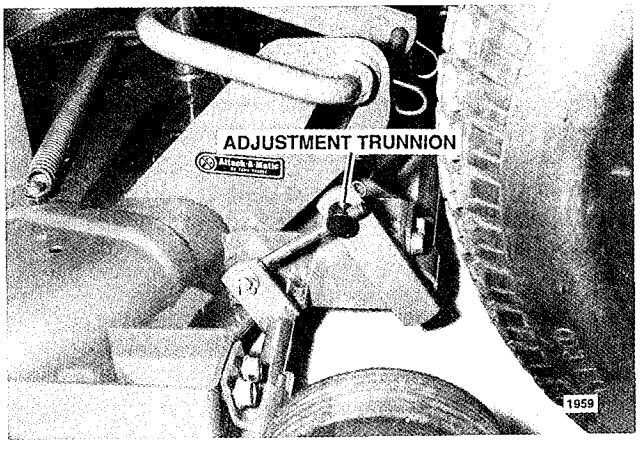


FIG. 8 Side-To-Side Adjustment (3/4" - 3" Range)

FRONT-TO-BACK (3/4" To 3" Range)

After side-to-side level is achieved, turn blades front-to-back and make sure gauge wheels are contacting ground. Loosen front link jam nut and turn bolt so that front blade tip is 1/8" lower than rear blade tip (Figs. 6 & 9).

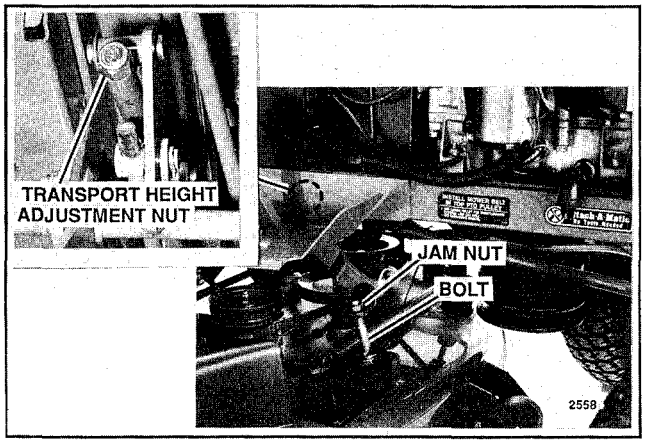


FIG. 9 Front-To-Back Adjustment (3/4"- 3" Height)

TRANSPORT HEIGHT ADJUSTMENT

Transport height is set at factory; however if necessary to change, use following procedure:

Adjust transport height by turning 1/2" nut clockwise until mower deck support is within .06" of footrest (Fig. 9).

MOWER REMOVAL

Pull on drive belt idler pulley and remove belt from PTO pulley (Fig. 5). Remove hairpin cotters and washers from left and right links and rear lift rods (Figs. 2 & 3). 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.

OPERATION

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

⚠ CAUTION ⚠

Mower can be equipped with a rear grass bagger attachment. Make sure steel discharge chute or Recycler® discharge cover is in place whenever bagger is removed.

⚠ CAUTION ⚠

To avoid loss of control, slow down when turning, backing and changing direction. Look behind tractor to ensure area is clear before backing.

RECYCLER® MOWER TIPS

RECYCLER® MOWER FEATURES

Your Recycler® mower has a new and completely different cutting concept. It leaves your lawn with a bagged look without bagging clippings.

Mower is equipped with special parts which increase ability to cut and recut grass clippings, leaves, and other yard debris into tiny particles which are injected down into the grass.

TIPS FOR CUTTING GRASS

Follow these instructions for best cutting results and lawn appearance:

1. Always use FAST (full) throttle when mowing.

2. Maintain **sharp blades** throughout the cutting season. A sharp blade cuts cleanly and without tearing or shredding grass blades like a dull blade. Tearing and shredding causes grass to turn brown at edges which impairs growth and increases susceptibility to diseases. About every 30 days, remove wire from tractor engine spark plug and check cutter blade for sharpness. File down any nicks on blade to restore its sharp edge.

3. Clean any residue from under side of mower deck and kickers after each use. If residue is allowed to build up in mower deck and on kickers, cutting performance may be unsatisfactory.

⚠ DANGER ⚠

Before removing any obstruction from mower deck, move PTO control into DISENGAGED position, shift into neutral and turn ignition key to OFF position. Remove wire from tractor engine spark plug to prevent possibility of accidentally starting engine.

4. When Recycler® mower is used to cut a lawn for the first time, remove about one inch or not more than one third of the grass blades. When cutting grass over six inches tall, cut twice to hide clippings down in grass.

5. If grass is ever allowed to grow slightly longer than normal, or if it contains a high degree of moisture, raise cutting height higher than usual and cut grass at this setting. Next, cut grass again using a lower normal setting. This method of cutting long grass results in an even distribution of clippings and an acceptable quality-of-cut. Cutting grass down to thatch will reduce room to hide cut grass and will greatly increase amount of loose clippings.

6. In heat of summer, it is best to cut only about one third of the grass blades. Cutting more than on third of grass off is not recommended unless grass is sparse or it is late fall when grass growth begins to slow down.

7. If cutting width of mower is wider than a mower previously used, raise height-of-cut setting one notch to ensure undulations in turf are not cut too short.

8. Very long or extremely wet grass can be cut, using specific operating techniques. Start by setting height-of-cut in highest position. Using slow speed and maximum throttle speed, move mower into grass and cut a swath that is only half as wide as mower deck. Slow forward movement occasionally to allow mower deck to clear itself. Cutting too much grass may clog mower. If mower deck does clog, disengage PTO, move to cut grass, raise deck to transport position and engage PTO to clear mower. Lower deck and

move slowly over clumps to disperse. If cutting with side discharge chute installed, direct grass clippings toward area that was cut previously.

MOWING IN EXTREME CONDITIONS

Even with the Recycler® mower, you may encounter conditions where it is not possible to incorporate all grass clippings or leaves into grass.

Air is required to cut and recut grass clippings in mower deck. It also takes extra power to recut excess clippings trapped under deck. Do not set height-of-cut too low or totally surround mower deck by uncut grass after initial cut. Always try to have one side of mower deck free from uncut grass, allowing air to be drawn into mower deck. When making an initial cut thru center of uncut area, operate tractor at a slower speed and back up if mower starts to clog. It also may be advisable to convert Recycler® mower to side discharge or install complete bagger.

STOPPING TRACTOR WHEN MOWING

If forward motion of tractor has to be stopped while cutting, a clump of grass clippings may be deposited on lawn. Follow this procedure for stopping tractor while cutting:

1. With blade engaged, move onto a previously cut area.
2. Raise mower to transport position while moving forward with mower in operation.
3. Stop motion of tractor, move throttle control lever to SLOW position, disengage PTO and rotate ignition key to OFF position.

MOW AT PROPER INTERVALS

Under most normal conditions you need to mow approximately every 4-5 days. However, grass grows at different rates at different times. This means that in order to maintain same height-of-cut, which is a good practice, your need to cut more frequently in early spring; as grass growth rate slows in mid summer, cut only every 8-10 days. If you are unable to mow for an extended period due to weather conditions or other reasons, mow first with height-of-cut at a higher level; then mow again 2-3 days later with a normal height setting.

Alternate mowing direction. This helps disperse clippings over lawn for even fertilization.

TIPS FOR CUTTING LEAVES

In the fall, you can cut your leaves up into finely cut particles and inject particles down into grass. When spring arrives, leaf particles will have decomposed and restored valuable nutrients into soil.

When cutting is complete, always be sure that 50% of lawn shows through finely cut leaf cover. This may require one or more passes over leaves.

If there are more than five inches of leaves on lawn, raise mower one or two settings higher. This makes it easier to feed leaves under mower deck.

If leaves are not cut up finely enough to be hidden down in grass, make a second pass 90° to first pass.

If you cut up a lot of oak leaves, you may want to add lime to your grass in the spring. Lime reduces acidity of oak leaves.

SIDE DISCHARGING OR BAGGING

⚠ CAUTION ⚠

Never mow grass without side discharge chute, Recycler® discharge cover or complete bagger installed. If Recycler® discharge cover is removed from mower to side discharge or bag clippings, grass discharge chute or bagger elbow should be installed to route grass down toward ground or into bagger. If discharge chute, Recycler® discharge cover or bagger elbow become damaged, replace them. Without discharge chute, Recycler® discharge cover or complete bagger installed, discharged material could cause personal injury or blade contact could occur.

SIDE DISCHARGE USAGE

To use as a side discharge mower, remove Recycler® discharge cover (Fig. 10). Removed rod, washers and cotter pins are to be used on side discharge chute. Locate supplied side discharge chute and spring (Fig. 11). Position rod in front clip on mower deck. Start retainer rod into front part of discharge chute. Position spring in center slot of discharge chute with long end inward and small end resting on top of discharge chute. Slide retainer rod through center of spring, rear part of discharge chute, one flat washer and rear clip on deck. Secure rod with two washers and cotter pins. Discharge chute should be spring loaded when in down position.

To convert back to a Recycler® mower, reinstall Recycler® discharge cover (Fig. 10). Make sure bottom of discharge cover is locked inside mower deck.

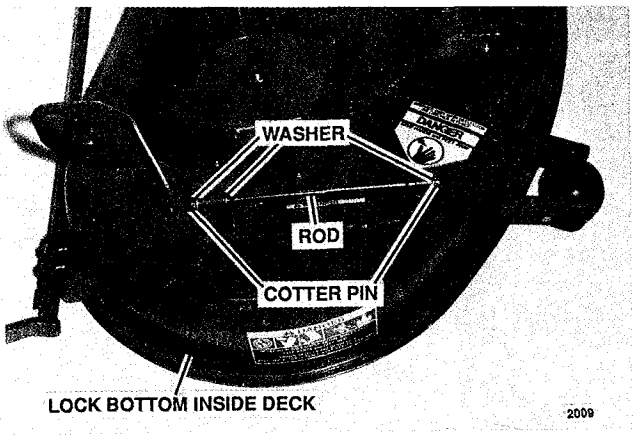


FIG. 10 Discharge Cover

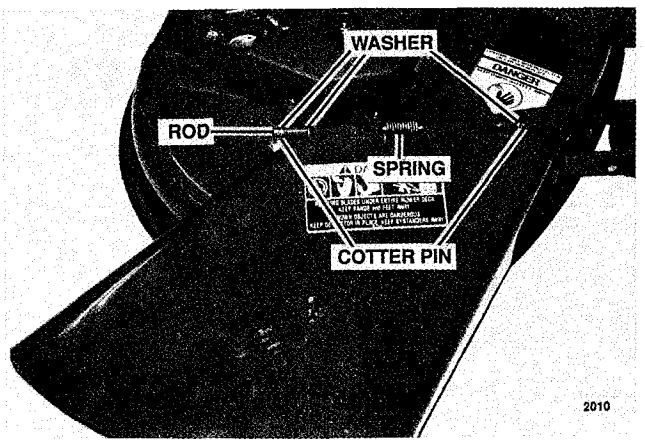


FIG. 11 Side Discharge Chute

BAGGER USAGE

The Recycler® mower's special features reduce clipping size, thus decreasing amount of grass to be disposed of and number of times bagger will have to be emptied. To bag grass, remove discharge cover and retain parts for reinstallation of discharge cover. Install complete bagger as outlined in bagger Operator's Manual.

To convert back to a Recycler® mower, reinstall discharge cover (Fig. 10). Make sure bottom of discharge cover is locked inside mower deck.

MAINTENANCE AND STORAGE

⚠ 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.

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 bolts from end of spindles and remove blades. 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. Tighten blade attaching bolts to a torque of 50-70 ft. lbs. (68-95 Nm).

Reinstall mower on tractor.

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. Idler pulley arm should be greased at 50 hrs. (Fig. 12).

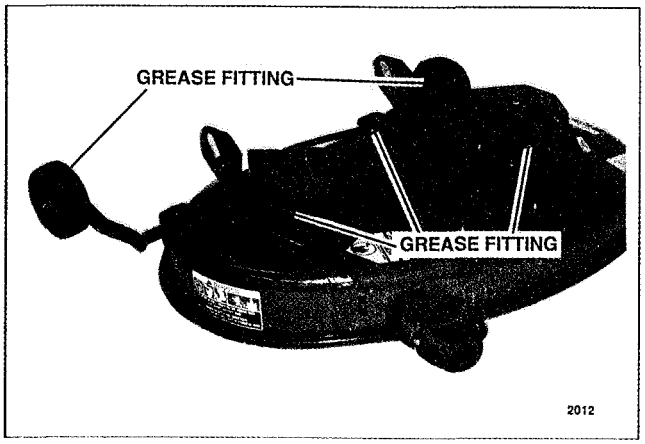


FIG. 12. Grease Fittings

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 spindle housings. Lubricate mower gauge wheels every 25 hours.

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. Remove mower from tractor to clean underside.

REPLACEMENT MOWER DRIVE BELT

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

Stop engine and remove spark plug wire. Lower mower all the way down. Pull on idler pulley and remove belt from PTO clutch pulley (Fig. 5). Remove right and left belt guards (Fig. 13). Remove drive belt from mower. Position belt on mower as shown in figure 13. Reinstall belt guards. Pull on idler pulley, install belt on PTO clutch pulley. Refer to "Cutting Height" section in this manual for correct PTO pulley usage.

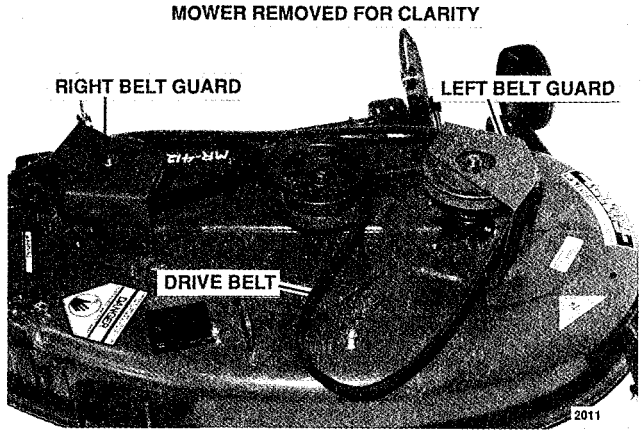


FIG 13. Drive Belt Routing

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 one minute to remove excess water from belts and pulleys.

Touch up painted surfaces with a fresh coat of "Toro 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.

TORO Consumer Products

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 with blade stop controls	1 year limited warranty
• Lawn Tractors, Yard Tractors, Rear Engine Riders, 3.0 and 3.5 HP Edgers, Straight Shaft Trimmers, 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.

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