FORM NO. 3315-425 (Rev. A)

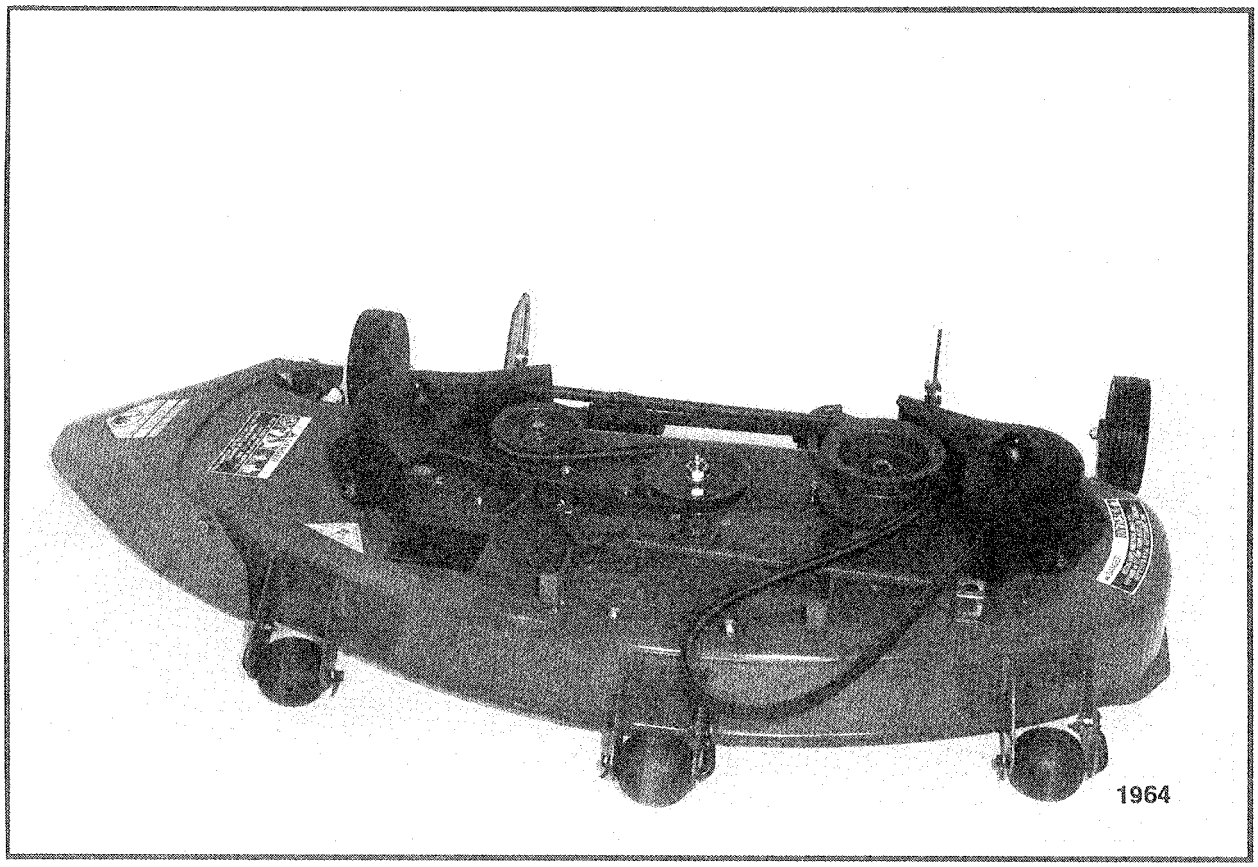
TORO®

MODEL NO. 78230 - 4900001 & UP

INSTALLATION INSTRUCTIONS

WHEEL HORSE®

42 in. Side Discharge Mower - YT



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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.



RightSide of Deck
Part Number 66-1340



Discharge Chute
Part Number 54-9220



Left Side of Deck
Part Number 76-4070

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.

MODEL _____

SERIAL NO. _____

ASSEMBLY

INSTALL DISCHARGE CHUTE

Locate discharge chute. Remove rear cotter pin, front nut and one plastic flat washer from deck (Fig. 1). Make sure second front washer and rubber bushing is retained on deck bolt. Hook spring end into small rear hole of discharge chute and install chute on rear deck pin using removed cotter pin. Install front of discharge chute on front deck bolt and secure using removed flat washer and nut. Check that discharge chute moves freely up and down with spring down pressure.

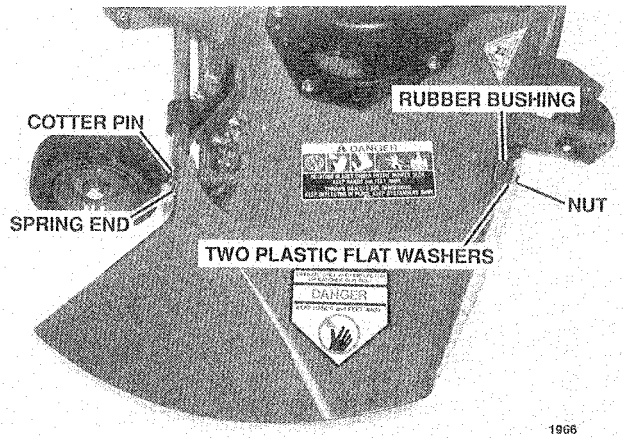

FIG. 1 Install Discharge Chute

INSTALLATION

IMPORTANT: Before installation, check that all mower blade nuts are tight:
Blade Nut Torque - 80-100 ft. lbs. (112-140 Nm)

MOWER

Position mower on right side of tractor, turn front wheels all the way left (Fig. 2).

Raise attachment lift all way up to the latched position. Slide mower under tractor and straighten front wheels. Turn Dial-A-Height knob all the way counterclockwise and lower

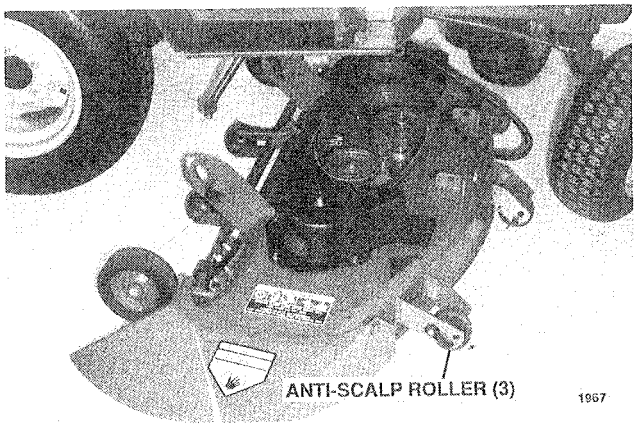

FIG. 2 Slide Mower Under Tractor.

attachment lift. Align left and right guide bushings with lift arm (Fig. 3). Slide mower to the left slightly to engage left hand bushing on lift arm and then right hand bushing on lift arm. Secure bushings to lift arm with flat washers and hairpin cotters (Figs.3 & 4).

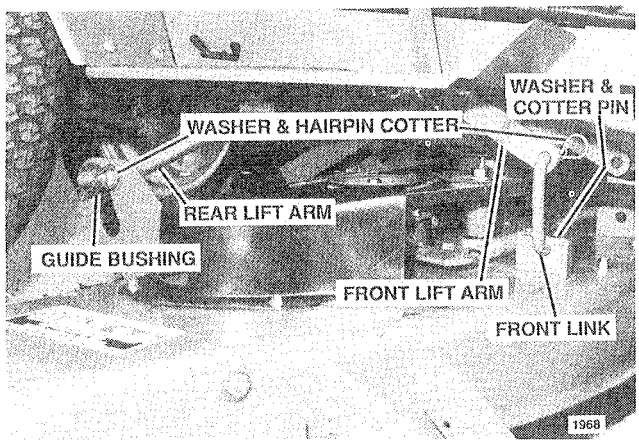

FIG. 3 Right Hand Mower Attachment

Connect right front link to mower deck with washer and cotter pin (Fig. 3). Connect front link to lift arm with washer and hairpin cotter. Raise mower to transport position. Connect left rear link to mower deck with washer and cotter pin (Fig. 4). Connect rear link to lift arm with washer and hairpin cotter. Install drive belt and level mower.

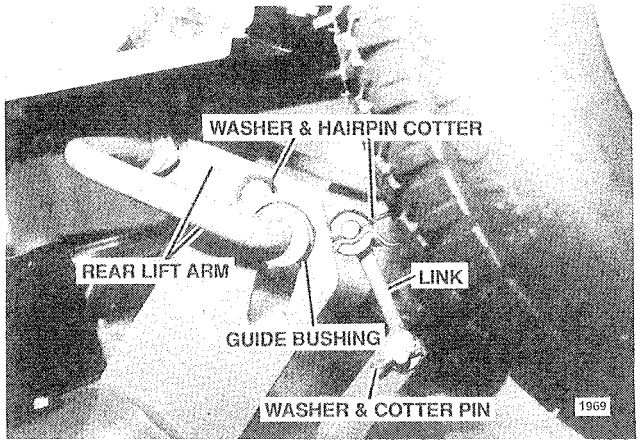

FIG. 4 Left Hand Mower Attachment

DRIVE BELT

Refer to Dial-A-Height height of cut decal located on hoodstand to the left of steering column (Fig. 5). Set height indicator at bottom of adjustment. Make sure spring is attached to pulley idler arm and deck (Fig. 6). Make sure drive belt is seated in spindle pulleys. Pull on idler pulley arm and install belt in PTO pulley (Fig. 6).

NOTE: If a low mower cutting height is selected, drive belt may have to be repositioned in a lower groove of PTO pulley (See "Cutting Height").

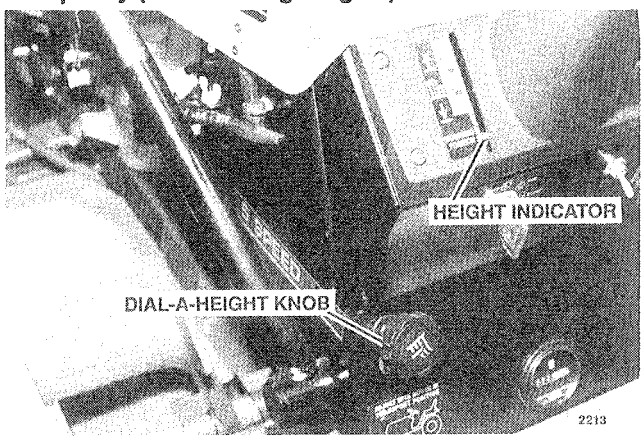

FIG. 5 Mower Cutting Height Indicator

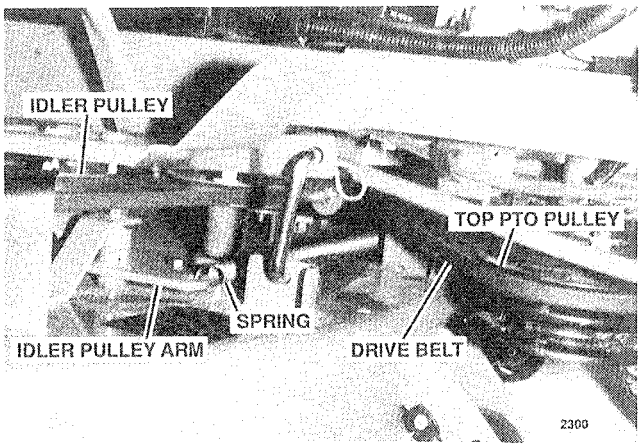

FIG. 6 Install Drive Belt

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. Moving parts can cause serious bodily harm.

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 cutting height is at desired setting (Fig.5). Lower attachment lift.

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 must be used for extremely low cutting 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 Rollers to top hole (Fig. 2).

LEVEL MOWER

When mower height is set between 3" and 4", mower is suspended from tractor. There is a 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 a 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. 7 & 8). Retighten adjustment bolt. If hanger is rotated to end of adjustment on one side and mower is still not level, adjust opposite side.

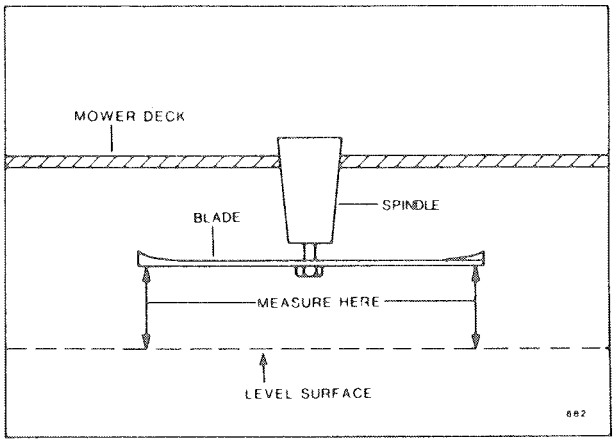

FIG. 7 Blade Level

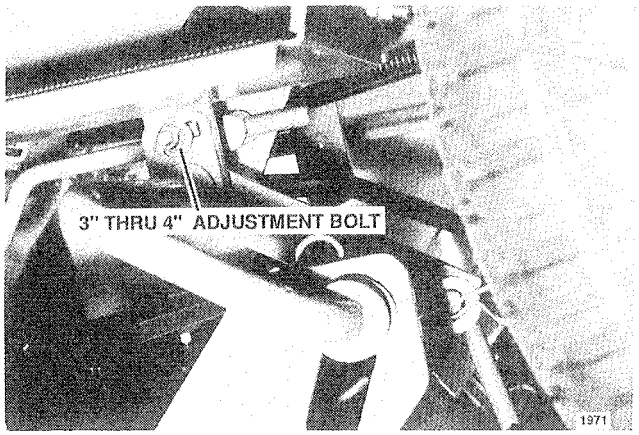

FIG. 8 Side-To-Side Adjustment (3" - 4" Range)

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. 7 & 9

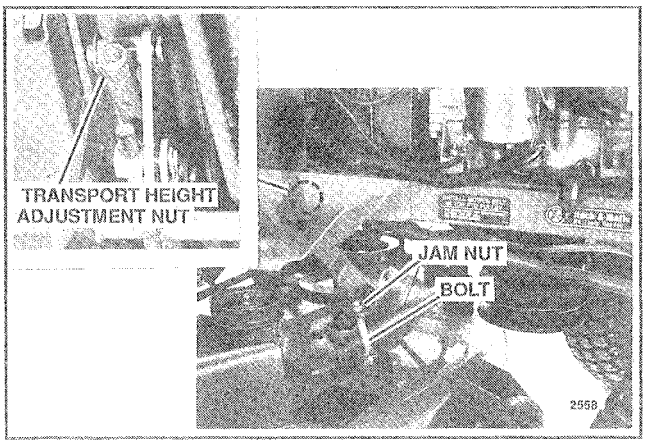

FIG. 9 Front-To-Back Adjustment (3/4"- 3" Height)

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 arm and remove belt from PTO pulley (Fig. 6). Remove hairpin cotters and washers from left and right links and rear lift rods (Figs. 3 & 4). 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 for proper operation of PTO clutch and brake. Adjustment of PTO is covered in tractor Operator's Manual.

For best performance operate engine at full throttle. Use transmission to set tractor 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). Every time mower cutting height is changed refer to "Cutting Height" and "Level Mower" sections in this manual for proper belt alignment and level setting. 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 grass can be cut without difficulty by using a little care. Set mower in its highest cutting position and enter area at a slow speed. 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 "streak" 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. Use of incorrect PTO pulley groove or level adjustment.

5. Incorrect tire pressures.

6. Streaking only on turns indicates turns are being made to sharply.

7. 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

⚠ 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 blade should be kept sharp and well balanced. To sharpen blades, remove mower from tractor. Remove blade attaching nuts 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 nuts to a torque of 80-100 ft. lbs. (112-140 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.

Lubricate mower gage wheels every 25 operating hours. Mower spindle and idler pulley arm bearings should be lubricated at 50 operating hour intervals (Fig. 10). 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 after 50 hours use.

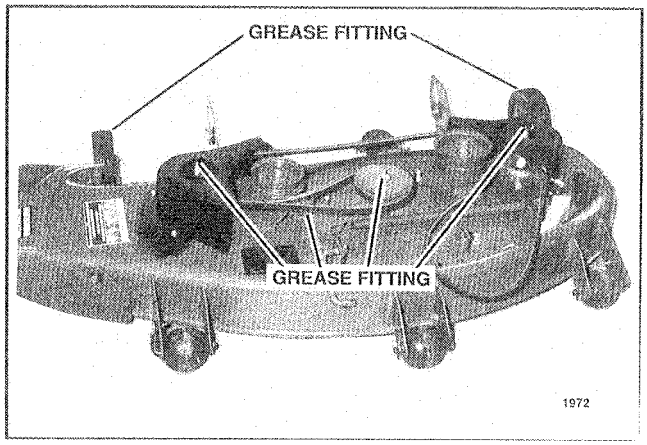

FIG. 10 Grease Fittings

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 arm and remove belt from PTO clutch pulley (Fig. 6). Remove right and left belt guards (Fig. 11). Remove drive belt from mower. Position belt on mower as shown on belt decal on deck and in figure 11. Reinstall belt guards. Pull on idler pulley arm and install belt on PTO clutch pulley. Refer to "Cutting Height" section in this manual for correct PTO pulley groove usage.

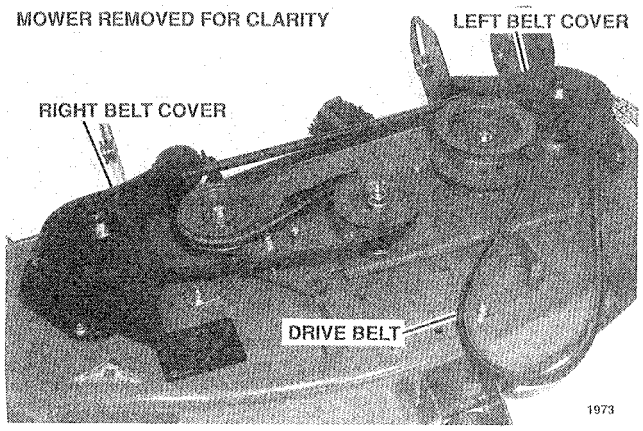

FIG 11. Drive Belt Routing

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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