

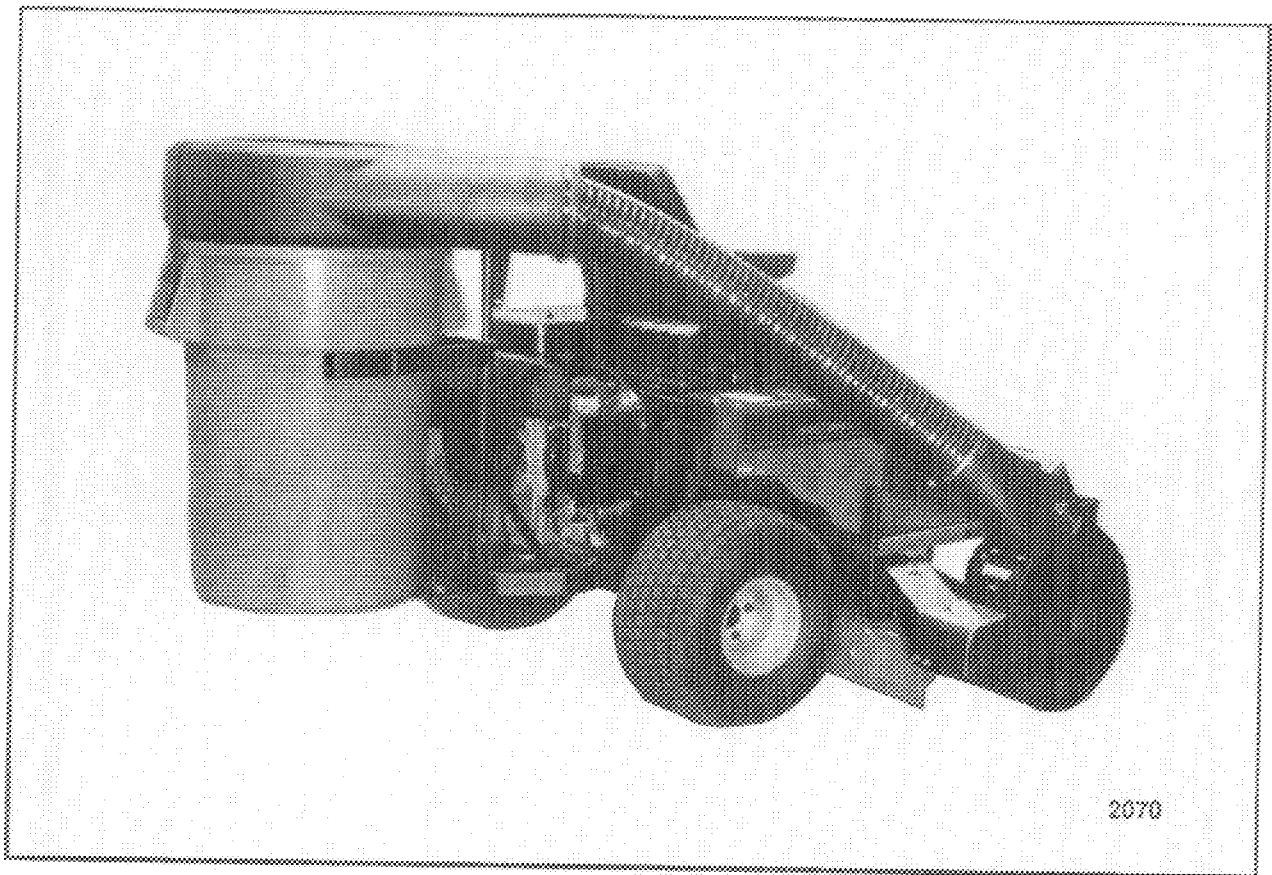


FORM NO. 3314-772

MODEL NOS. 07-50VZ01-2000001 & UP
07-60VZ01-2000001 & UP

INSTALLATION INSTRUCTIONS

WHEEL HORSE®
50" (127 cm) and 60" (152 cm) Vacuum Bagger

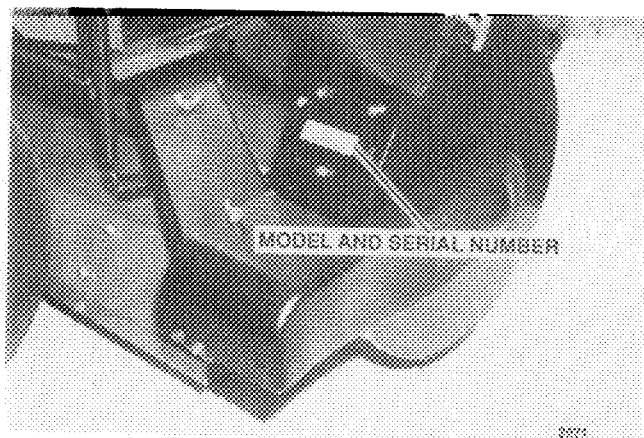
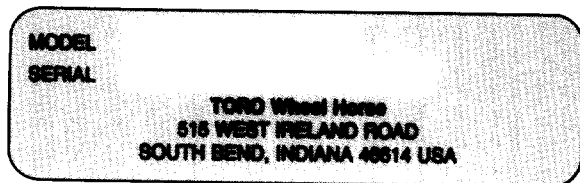


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MODEL AND SERIAL NUMBER

A Model and Serial Number identifies your Toro Wheel Horse Vacuum bagging attachment. Always refer to these numbers when consulting your dealer or factory about service, replacement parts, or questions you may have. Replace plate if it becomes lost during operation or maintenance. For your reference, record numbers from Model and Serial Number plate on your attachment.



Model and Serial Number

DESCRIPTION

The grass vacuum bagger covered in this manual is designed to fit 700-Series Toro Wheel Horse mowing machines with 50 and 60 inch side discharge mower Model Numbers C5-50ZS03 & Up and C5-60ZS02 & Up. If vacuum blower is to be installed on mower model numbers C5-50ZS01,02 or C5-60ZS01, it is recommended that a new mower baffle be installed inside deck for best performance. Baffle is available from your Toro Wheel Horse Dealer.

⚠ CAUTION ⚠

Use of Front Weight Kit # 8-1127 is mandatory for operation of this vacuum bagger.

Loss of control or roll-over could cause serious injury or death.

Never operate this vacuum bagger unless front weight kit is installed.

PREPARE MOWER

⚠ CAUTION ⚠

Sharp edges of mower blade can cut you during blade maintenance or adjustment. Use suitable covering over cutting edges of blade to prevent bodily harm.

Some of the following procedures may already be performed to facilitate installation of vacuum bagger, etc. holes drilled in deck. Find supplied right hand "Add-On" spindle pulley. Remove bolt from spindle pulley and install supplied pulley on top of original pulley using supplied 5/8-11 x 2 1/2 bolt (Fig. 1). Make sure long side of hub is down and pilot engages I.D. of original mower pulley. Torque bolt to 100-150 ft. lbs. (140-210 Nm).

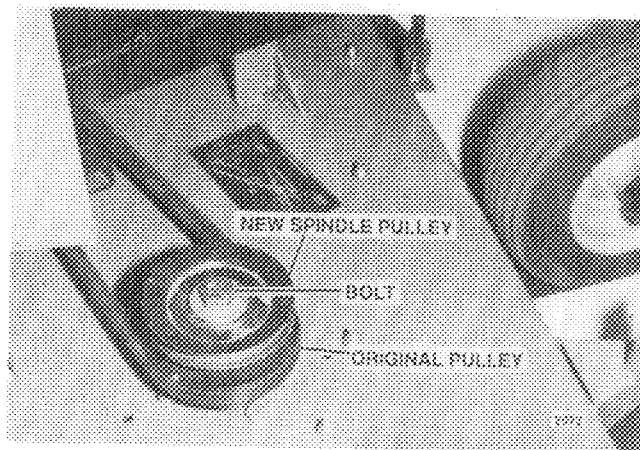


FIG. 1 Mower Vacuum Pulley

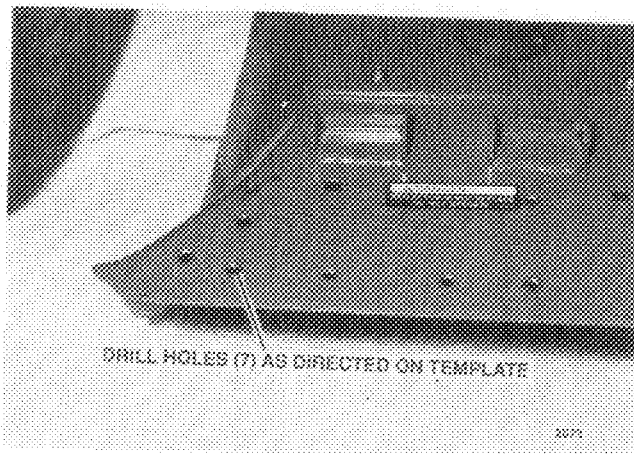


FIG. 2 Drill Holes In Deck

Remove discharge chute from mower and save for reinstallation when vacuum is removed.

⚠ CAUTION ⚠

Never operate mower unless discharge chute or complete vacuum bagger is installed. Debris can fly out discharge area and injure you.

Locate template P/N 79-4030 (50 inch mower) or P/N 79-4040 (60 inch mower). Drill holes in top right hand surface of mower deck using template (Fig. 2).

Mark and drill hole in front of mower deck positioned as shown in Figure 3 or 4.

Find deflector and rear baffle (Fig. 5 or 6). Position center mounting holes of deflector on top of baffle center holes and install deflector and baffle on mower deck with three 5/16-18 bolts and nuts. Mark and drill remaining holes in mower deck to mount deflector and baffle. Complete installation of

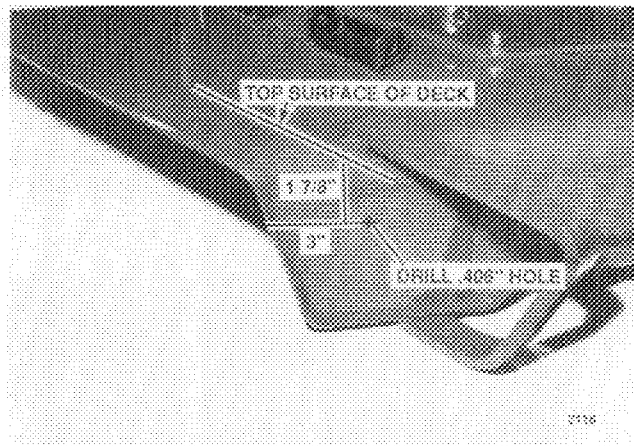


FIG. 3 Drill Deflector Hole In Deck - 50" Mower
deflector and baffle using 5/16 x 3/4 bolts and nuts. On 50" mower only, install 5/16 thread forming bolt (Fig. 5).

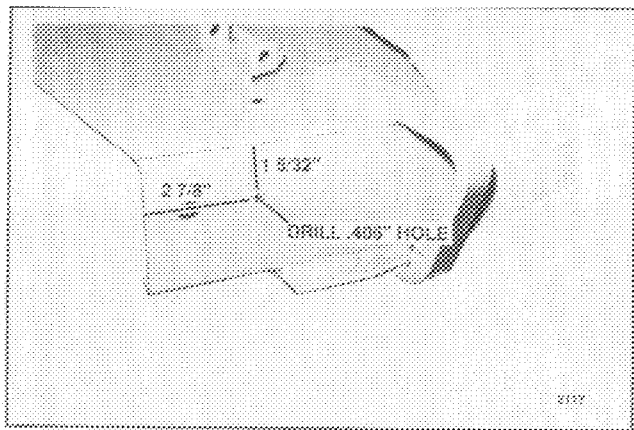


FIG. 4 Drill Deflector Hole In Deck - 60" Mower

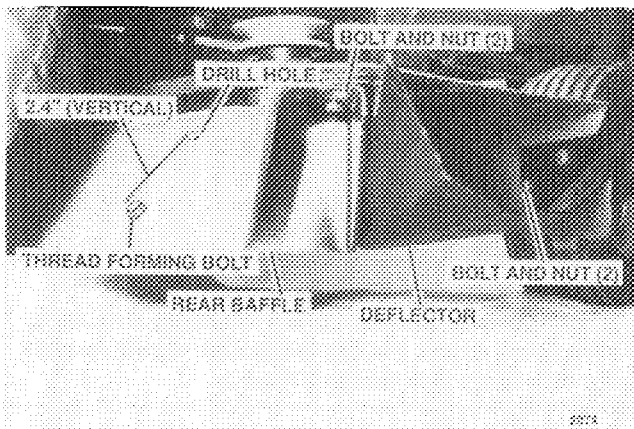


FIG. 5 Install Deflector and Rear Baffle - 50" Mower

INSTALLATION

Locate top spring support (Fig. 7). Remove foot platform and loosen two bolts on machine cross channel. Slide spring support inside and against front wall of cross channel and position as shown in figure 7. Retighten two bolts on machine cross channel.

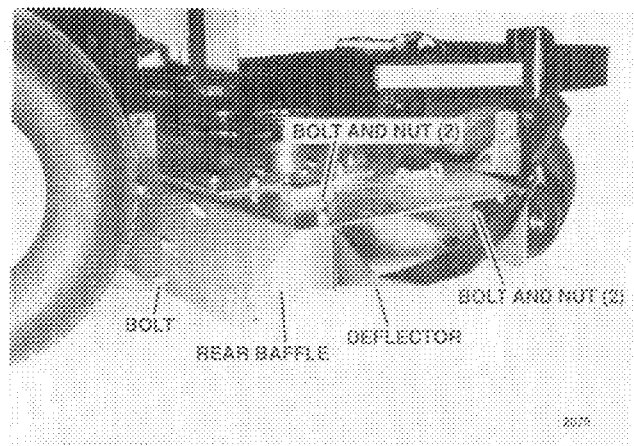


FIG. 6. Install Deflector and Rear Baffle - 60" Mower

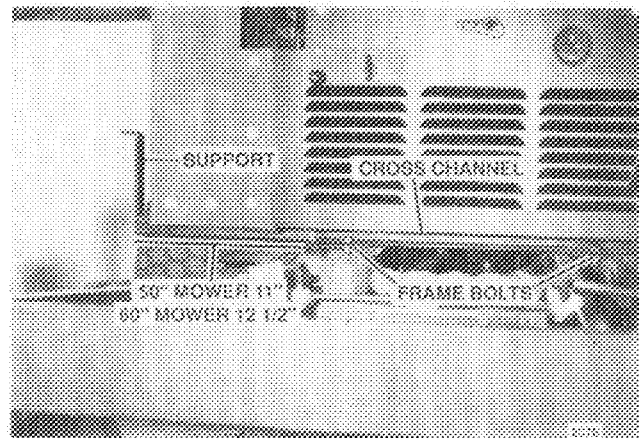


FIG. 7 Install Top Spring Support

Install blower assembly on mower deck using supplied 5/16 x 3/4 bolts and nuts (Fig. 8 or 9).

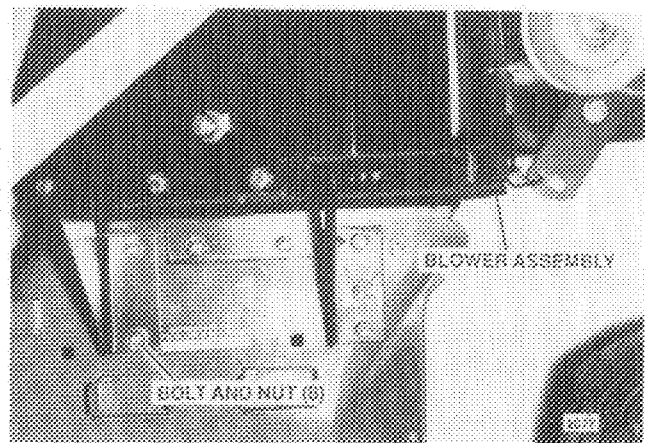


FIG. 8 Install Blower - 50" Mower

Refer to Figure 10 or 11. Remove and discard original hardware from deck to install spring bracket and belt cover support. Find and loosely install spring bracket and belt cover support on deck using two supplied 3/8 x 1 1/4 bolts and nuts. Raise mower to highest cut and install spring. Adjust spring bracket on deck so that spring is vertical and tighten bolt and nut.

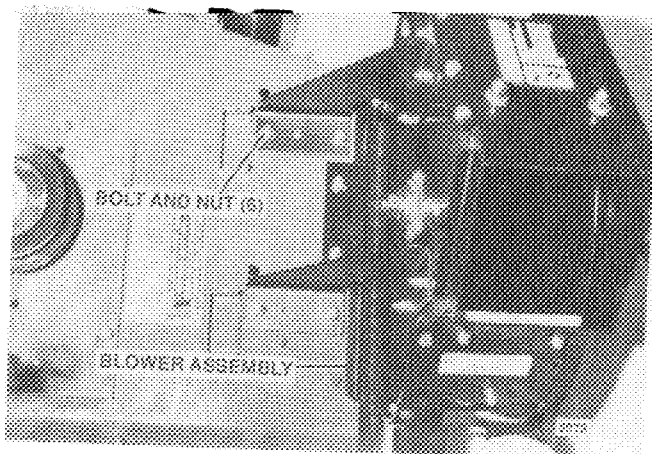


FIG. 9 Install Blower - 60" Mower

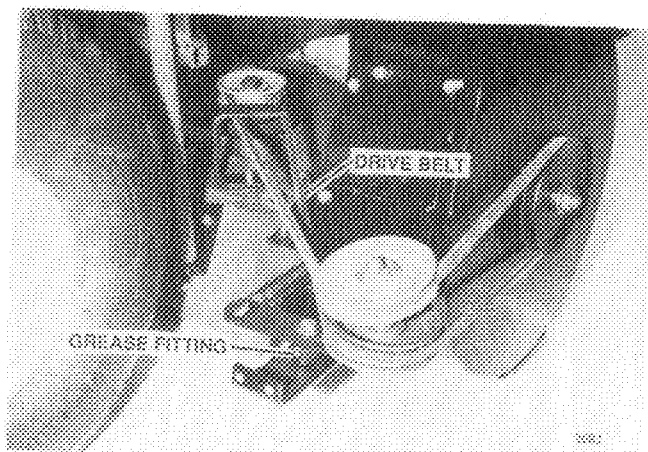


FIG. 12 Install Drive Belt - 50" Mower

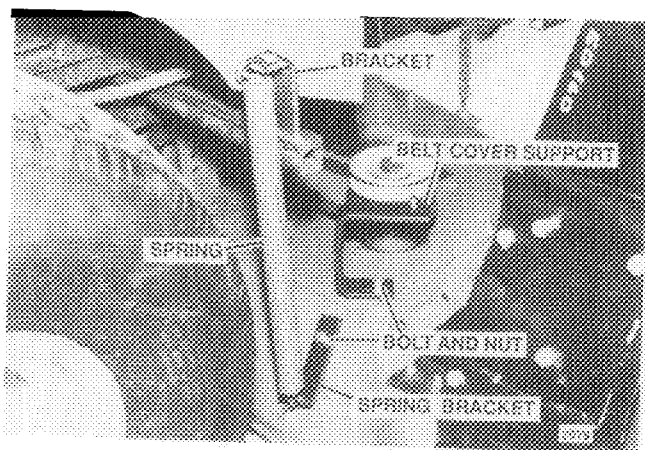


FIG. 10 Install Spring - 50" Mower

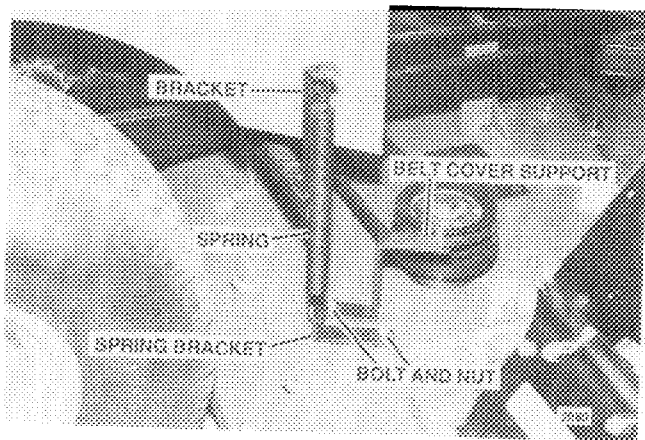


FIG. 11 Install Spring - 60" Mower

Install drive belt as shown in Figure 12 or 13. Install outside belt cover with four 5/16 x 1 bolts (Fig. 14 or 15). Find 5/16 x 3/4 carriage bolt, flat plate (1 x 2 1/2) with square hole, and two wing nuts. Place plate over carriage bolt and loosely install in outside belt cover using one wing nut as shown in Figure 14 or 15. Slide slotted end of inner belt cover between plate and outside belt cover. Position hole in other end of inside belt cover over stud on cover support and install other wing nut. Slide inner belt cover as far towards outside belt cover as possible and tighten wing nuts. Tighten cover support bolt and nut on deck.

Find lower canister support and 1/2 x 4 bolt, nut and large hairpin cotter (Fig. 16). Install lower canister support into rear support with bolt and nut. Use hairpin cotter to lock lower canister support in storage or operating position.

Find heat shield and four 5/16 x 5/8 bolts, flat washers and nuts (Fig. 16). Position bolts through washers, heat shield, and then support rod brackets. Install nuts on bolts and tighten.

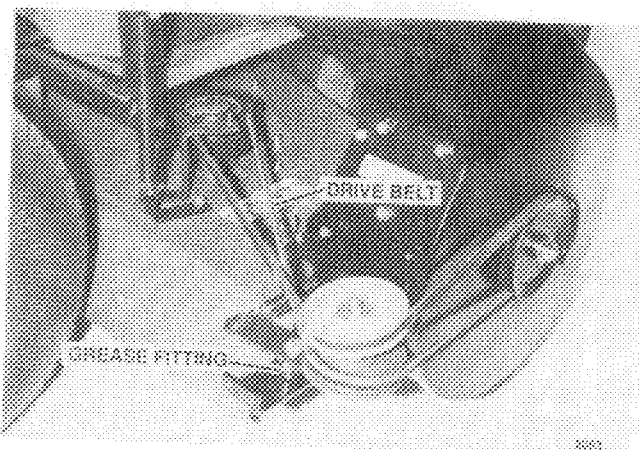


FIG. 13 Install Drive Belt - 60" Mower

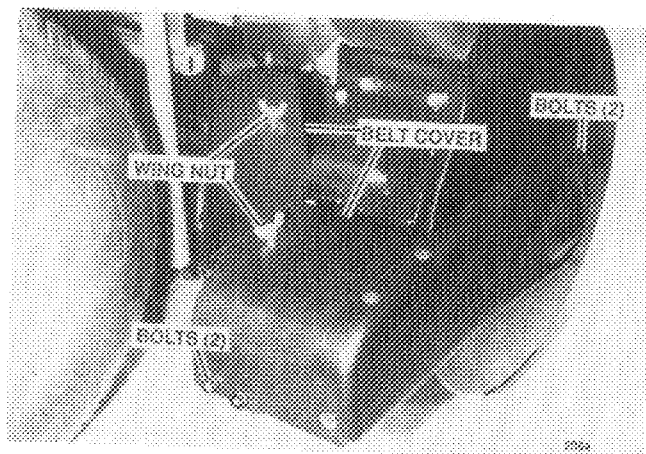


FIG. 14 Install Belt Covers - 50" Mower

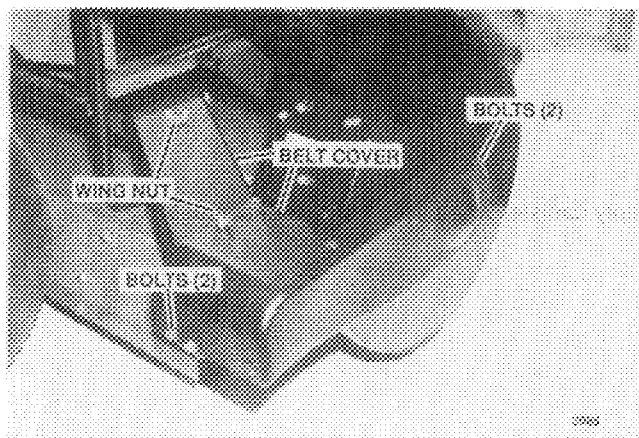


FIG. 15 Install Belt Covers - 60" Mower

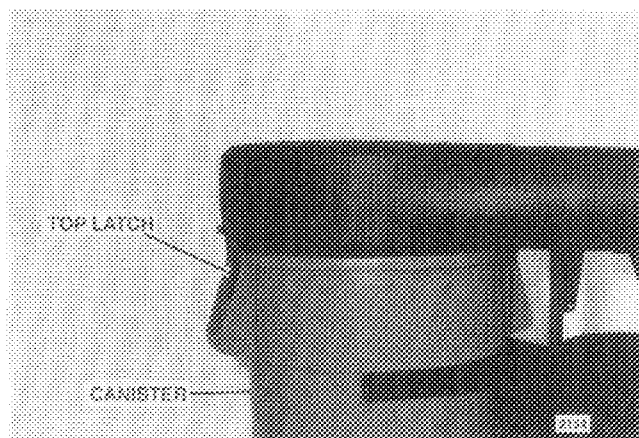


FIG. 18 Install Canister

Locate discharge elbow, tube and tube clamp (Fig. 19). Install tube on elbow with clamp. Install elbow on blower assembly.

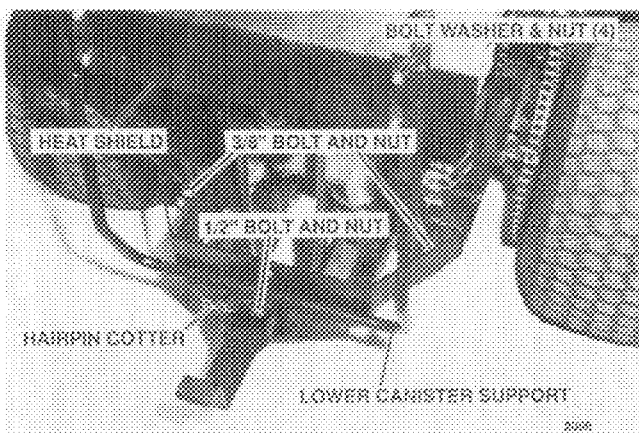


FIG. 16 Install Rear Support

Find canister bracket, top assembly and two springs (Fig. 17). Slide top assembly pivot bolts into slots of canister bracket. Install hook of one spring on top anchor and other end on bottom anchor. Install second spring using same procedure.

Install canister with handles as shown in figure 18. Lower top assembly and latch in place. Holes are provided in canister bracket if retaining strap is necessary for road transport.

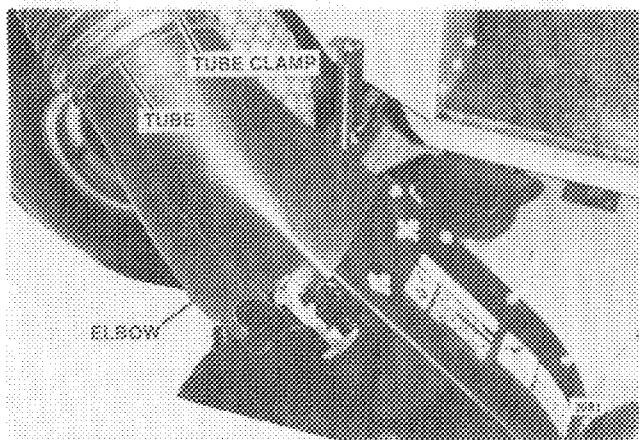


FIG. 19 Install Discharge Elbow and Tube

Find rubber boot and black plastic tie wrap (Fig. 20). Slide large opening of rubber boot over top assembly inlet. Position staples at bottom and overlap 1". Install tie strap over boot, positioned over groove in top assembly. Pull tie strap tight and cut off loose end.

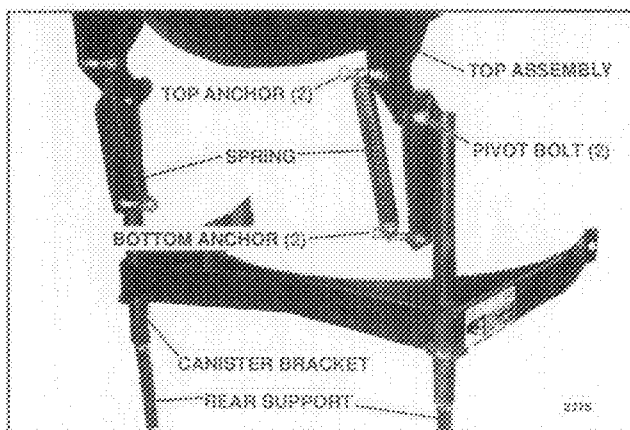


FIG. 17 Install Top Assembly

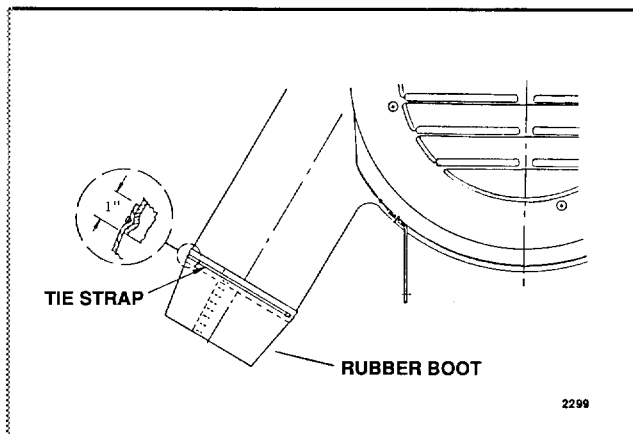


FIG. 20 Install Boot

Fold top assembly boot into top assembly inlet and install discharge tube (Fig. 21). Boot should remain folded inside top assembly inlet to form a tight seal.

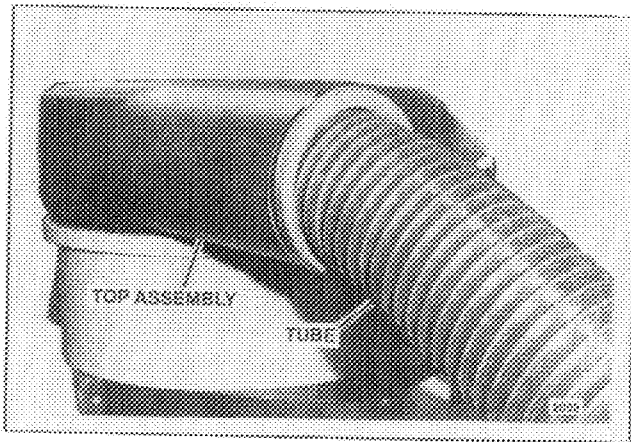


FIG. 21 Install Discharge Tube

OPERATION

⚠ DANGER ⚠

Become familiar with all operating instructions and safety suggestions contained in applicable Operator's Manual before attempting to operate this equipment. Never do any maintenance or repairs while engine is running. Never remove discharge tube while engine is running. Debris can fly out of discharge area and injure you.

With a few exceptions, operation of machine with vacuum bagger is similar to operation without it. Keep in mind that machine is made longer and wider when this attachment is installed so be sure to avoid sharp turns in confined places. Also, do not trim with right side of mower. Trimming with right side of mower can result in damage to blower assembly.

Vacuum attachment is designed to operate efficiently at normal mowing speed. Due to extra amount of power required to drive mower and vacuum, it may be necessary to reduce ground speed of machine to keep engine running smoothly at maximum governed RPM. When mowing uphill, it is recommended that machine's ground speed be reduced. This will help to avoid a large power drop. When practical, set up a mowing pattern that will permit as much downhill mowing as possible.

⚠ CAUTION ⚠

Avoid stopping when mowing uphill. If it becomes necessary to stop when moving uphill, place machine back into motion with extreme care. Sudden starts can cause roll-over or personal injury.

Suction action generated by mower and vacuum is capable of picking up grass clippings, leaves, small twigs and other light debris from lawn and deposit them in the canister. Remove larger twigs, branches, tree limbs, stones and other solid debris from lawn before mowing to avoid damage to mower and vacuum.

During operation, when a small amount of grass clippings are blown out front of mower, this is an indication that canister is full.

If suction action, or pick-up should stop during use, disengage mower and shut off engine. Check for full canister or a clogged discharge elbow or blower assembly. Always empty canister when filled and after each use.

⚠ CAUTION ⚠

Grass canisters are not storage containers. Never leave fresh grass clippings or other organic matter in canister for any length of time. Under the right conditions spontaneous combustion, a fire generating process which occurs without an external source of ignition, can occur with this type of material and cause severe injury to you.

EMPTYING THE CANISTER

Move transmission levers into neutral position, apply parking brake and disengage PTO. Stop engine before leaving operator position. Pull canister handle up to remove or look inside canister. If applicable, empty canister. To reinstall canister or close top assembly, lower top in latched position (Fig. 18).

MAINTENANCE AND STORAGE

Normal maintenance of vacuum bagger attachment is minimal. After use, remove discharge tube and wash tube and discharge elbow with a garden hose. Use a mild detergent to remove stubborn dirt. After washing, allow parts to thoroughly dry. Check underside of mower and inside of canister after use and clean as necessary. Matted grass in these areas can effect performance.

After first 10 hours of operation, inspect that all parts of vacuum and all fasteners are in good condition. Pay particular attention to condition of elbow and tube - replace if cracked or broken with new parts. Inspect blower wear strip every 25 hours of operation. Replace strip when it is worn thin.

IMPORTANT: Inspect mower blades and blower impeller frequently and whenever a blade strikes a foreign object. If mower blades or blower impeller are worn or damaged, install new parts.

LUBRICATION

Lubricate blower pulley idler arm every 25 operating hours with # 2 multi-purpose lithium grease (Fig. 22). Belt covers must be removed to gain access to grease fitting.

DRIVE BELT REPLACEMENT

Remove belt covers and note routing of belt (Fig. 22). Remove belt. This belt is designed specifically for this application. Reinstall belt and belt covers as outlined under "Install Vacuum".

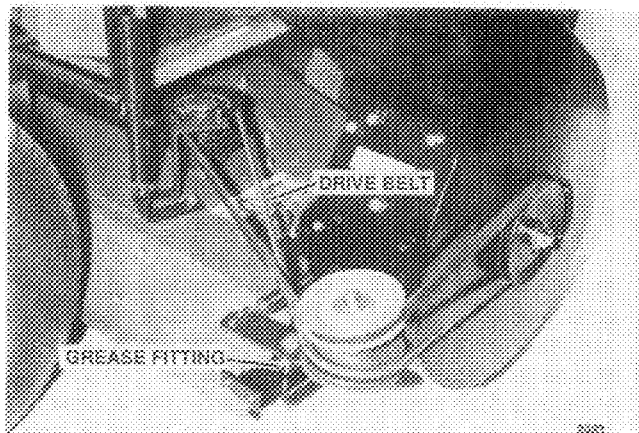


FIG. 22 Drive Belt and Grease Fitting

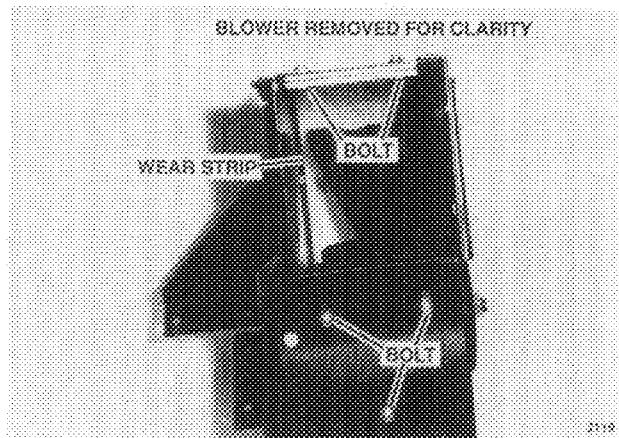


FIG. 23 Blower Wear Strip

BLOWER WEAR STRIP REPLACEMENT

Remove discharge elbow from blower. Remove five bolts and pull wear strip out of blower (Fig. 20). Clean inside of blower thoroughly. Slide new wear strip inside blower and install three bottom bolts and nuts. Push wear strip tight against blower and install two top bolts and nuts. Check that blower impeller clears wear strip.



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). Wide area walk behind mowers, ProLine 118, 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

- 300 through 700 Series Tractors
(except 612-Z) and 1600 HMR
Chassis 1 year limited warranty
Engine 2 year limited warranty
- 21" Commercial Duty Walk Mower
with blade stop controls . . 1 year limited warranty
- 200 Series Tractors, Rear Engine Riders,
612-Z, 1200 HMR
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
Minneapolis, MN 55420
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.