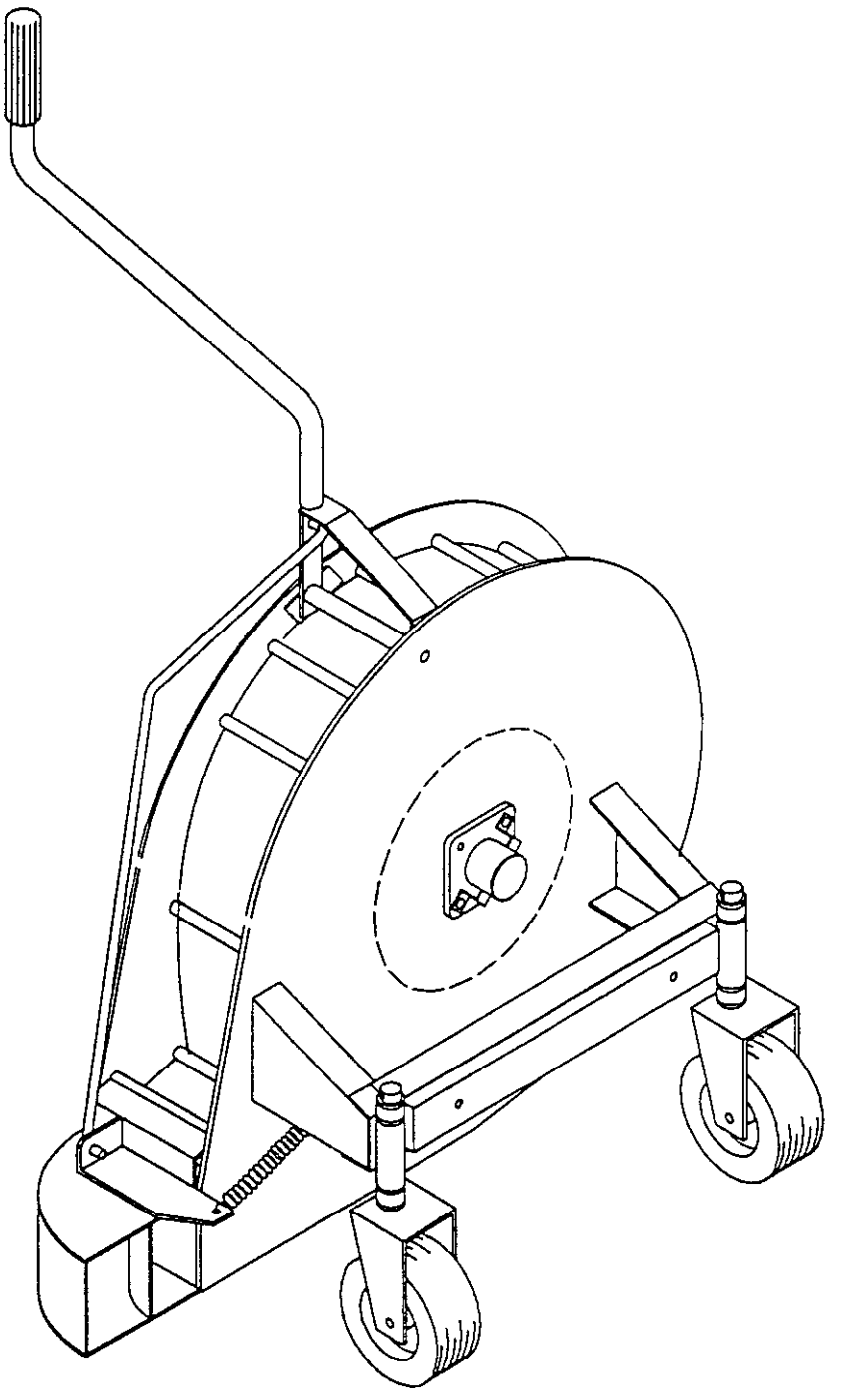
FORM NO. 01-502-0410

TORO

MODEL NO. 44524 - 20101 & UP
MODEL NO. 44526 - 20101 & UP
MODEL NO. 44528 - 20101 & UP
MODEL NO. 44530 - 20101 & UP
MODEL NO. 44532 - 20101 & UP
MODEL NO. 44534 - 20101 & UP

OPERATOR'S MANUAL

DEBRIS BLOWER 2670



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FOREWORD

Thank you for buying a high quality Toro turf care product. To get the best performance from this machine, operate and maintain it according to the instructions in this manual.

Toro also wants to stress the importance of safety. You and anyone else using or maintaining this machine are strongly urged to read this manual, especially all the safety instructions.

DANGER, WARNING and CAUTION, used with the triangular safety alert symbol, highlight safety messages. Always read and understand these messages because they relate to personal injury and your safety.

If you ever need help or have questions about your new Toro turf care product, contact your local Authorized Toro Distributor. The Toro Distributor has a complete supply of replacement parts, a full line of accessories and a professional service staff to support you. Keep your Toro all Toro. Buy genuine Toro parts and accessories.

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SAFETY INSTRUCTIONS

The safety alert symbol means CAUTION, WARNING OR DANGER- "personal safety instruction". Read and understand the instruction because it has to do with safety. Failure to comply with the instruction may result in personal injury.

BEFORE OPERATING

1. Read and understand the contents of this manual before starting and operating this machine. Become familiar with all controls and know how to stop quickly. A free replacement manual is available by sending complete Model and Serial Number to: The Toro Company 100 Industrial Parkway Industrial Airport, Kansas 66031

2. Do not allow children to operate the machine. Do not allow adults to operate the machine without proper instruction.

3. **Never** operate the machine while under the influence of drugs or alcohol.

4. Keep all shields and safety devices in place. If a shield, safety device or decal becomes damaged, malfunctioning or illegible, repair or replace it before operation is commenced. Also tighten loose nuts, bolts to ensure machine is in safe operating condition. This includes all shields on the PTO.

5. Before each use, be sure all bolts and nuts are tight; Check the general condition of the PTO.

6. Do not alter this equipment in any manner which may cause hazardous conditions.

WHILE OPERATING

WARNING

DISCHARGED AIR HAS CONSIDERABLE FORCE AND COULD CAUSE INJURY OR LOSS OF FOOTING

- Stay away from discharge opening when machine is running.
- Keep bystanders away from discharge opening when machine is running.

7. Using the machine demands attention, and to prevent loss of control:

A. Operate only in daylight or when there is good artificial light.

B. Drive slowly.

C. Watch for holes or other hidden hazards.

E. Do not drive close to a sand trap, ditch, creek or other hazards.

F. Reduce speed when making sharp turns and when turning on a hillside.

G. Avoid sudden stops and starts.

8. Operator must be skilled and trained in how to drive on hillsides. Failure to use caution on slopes or hills may cause loss of control possibly resulting in personal injury or death.

9. If engine stalls or machine loses headway and cannot make it to the top of a slope, do not turn machine around. Always back slowly straight down the slope.

10. Do not carry passengers on the machine or Groundsmaster and keep everyone away from the areas of operation.

11. ALWAYS follow all safety precautions in the Groundsmaster operator's manual pertaining to attachments.

MAINTENANCE

12. Remove the key from the ignition switch to prevent accidental starting of the engine when servicing, adjusting or storing the machine.

13. If major repairs are ever needed or assistance desired, contact an Authorized TORO Distributor.

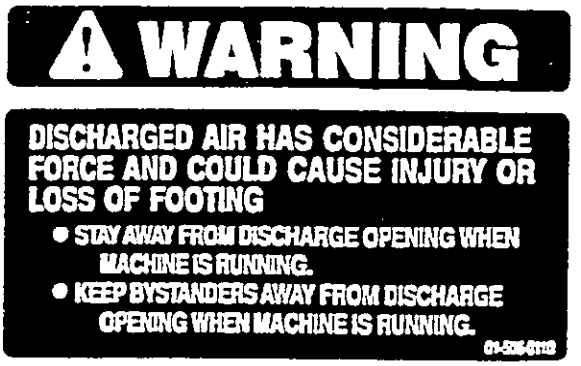
14. Make sure machine is in safe operating condition by keeping nuts, bolts and screws tight.

SAFETY AND INSTRUCTION DECALS

The following safety and instruction decals are installed on the unit. Replace any decals that becomes damaged or illegible. Part numbers for decals are listed below and in your Parts Catalog. Order replacements from your Authorized Toro Distributor.



ON BELT GUARD (200 Series Only)
(Part No. 01-506-0130)



ON DEFLECTOR
(Part No. 01-506-0110)



ON BELT GUARD (200 Series)
ON PTO GUARD (300 Series)
(Part No. 01-506-0130)



ON FAN SHAFT GUARD
ON BELT GUARD (200 Series)
ON PTO GUARD (300 Series)
(Part No. 01-506-0130)

SPECIFICATIONS

POWER:
PTO from Groundsmaster

CASTORS:
Swivel castors 4.10 x 3.5 x 4

FRAME:
All welded steel construction

BEARINGS:
2 self sealed and self aligning

IMPELLER:
10 bladed, 24" diameter, welded and balanced

DIRECTIONAL CHUTE: (Standard)
All steel over center locking, spring loaded

DIMENSIONS:
Height: 36"
Length: 36", 24" without handle
Width: 46" with directional chute in down position

SHIPPING WEIGHT: 245 lbs.

CFM: Approx. 3600 MPH: 154

BEFORE OPERATING

ATTACH BLOWER TO 300 SERIES GROUNDSMASTERS (Fig. 1)

⚠ WARNING

- Left hand push arm on Groundsmaster is spring loaded.
- Sudden release of the push arm could cause serious personal injury.
- Keep hands and face away from arm when it is held and blocked in the downward position.
- Use a helper and a wooden block to hold push arm down during installation of accessory.

1. Remove cutting unit or other attachment from Groundsmaster. Refer to cutting unit or attachment operator's manual.

2. Attach the Deflector Handle on the blower housing using the 1/2" x 8-3/4" bolt.

3. Attach the linkage rod to the top hole in the Deflector Handle. Secure with flat washers and a 1/8" x 1" cotter pin.

4. Position the Groundsmaster to the rear side of the blower.

5. Attach the Upper Support Brackets (A) to the center lift arm. Secure with 3/8" x 1-1/2" bolts.

6. Have a helper push down on the left push arm; then insert a 2" x 4" block of wood between the frame and the top of the push arm.

7. Pull down the right push arm until it is level with the left push arm. Try to keep both arms level as possible for easier installation.

8. Line up the left lift arm with the lower lift arm bracket (B). Fasten with 3/8" x 1-1/2" bolts and leave the bolts finger tight.

9. Line up the right lift arm with the bracket on the blower housing (C). Fasten with 7/16" x 1-1/2" bolts and leave the bolts finger tight.

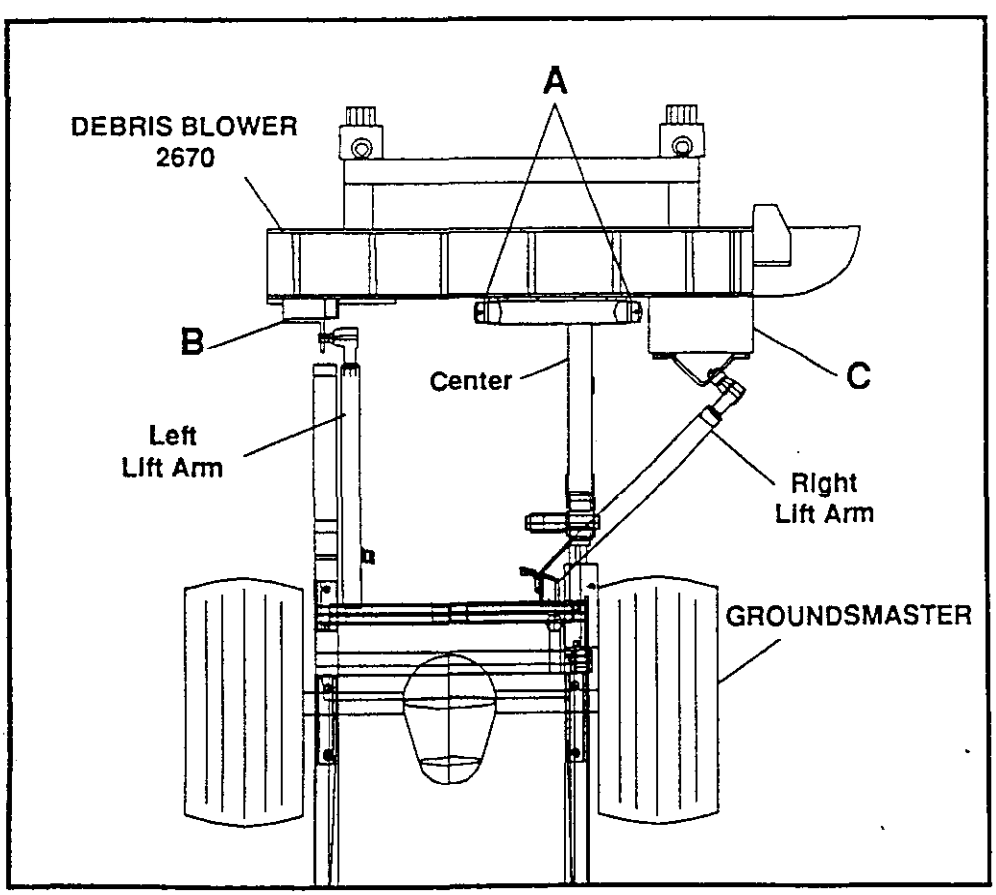


Figure 1

10. Secure the bolts on the left lift arm.

11. Secure the bolts on the right lift arm.

12. Have a helper push down the left push arm; then remove the 2" x 4" blocks of wood.

13. Have a helper push down the right push arm; then remove the 2" x 4" blocks of wood.

14. Attach the PTO of the Groundsmaster to the PTO Adapter on the blower fan shaft.

15. Using the lift mechanism on the Groundsmaster, lower the unit on a level surface.

16. Practice raising and lowering the blower.

NOTE: When mounting the blower to a 300 Series Groundsmaster with the 88" Triflex mowing deck, the hydraulic line support on the Groundsmaster needs to be replaced. Failure to do so will result in the PTO hitting the bracket, causing damage to the PTO. To replace, follow the instructions below.

A. Remove the existing bracket. Disconnect hoses from the bracket and temporarily from the valve banks.

B. Install the Hydraulic Bracket (part number 67-005-2371)(Fig. 2) in the same location with existing hardware.

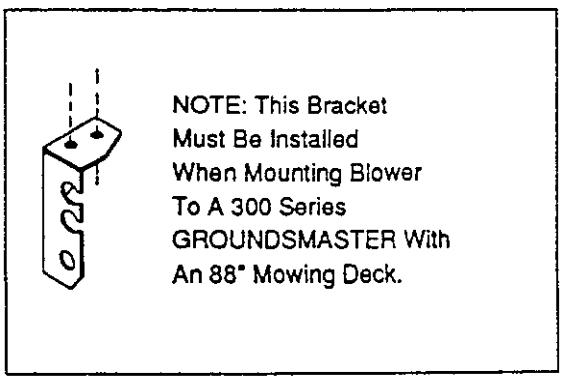


Figure 2

C. Beginning with the top hose, reconnect the hoses to the new bracket. Fasten down with the existing snap rings. Connect the hoses back to original positions on the valve.

D. Start unit, then raise and lower the blower to check for clearance.

ATTACH BLOWER TO 200 SERIES GROUNDSMASTERS

1. Remove the cutting unit or other attachment from the Groundsmaster. Refer to cutting unit or attachment operator's manual.

2. Position the Groundsmaster to the rear side of the blower.

3. Connect the PTO. Slowly push the blower toward the Groundsmaster allowing the PTO halves to slide together.

GROUNDSMASTER 220 & 224 (Fig. 3)

4. Attach the Support Bracket (A) to the left side of the steering column housing using existing holes. Secure with 1/4" x 1" bolts.

5. Attach the Lower Support Arm (B) to the front rail of the Groundsmaster. Secure with 3/8" x 1-1/2" bolts.

GROUNDSMASTER 220-D and 223-D (Fig. 4)

6. Attach the Support Bracket (A) to the steering column housing. Secure the bottom four holes with 3/8 x 1 1/2" bolts. Secure the two top side holes with 1/4 x 3/4" bolts.

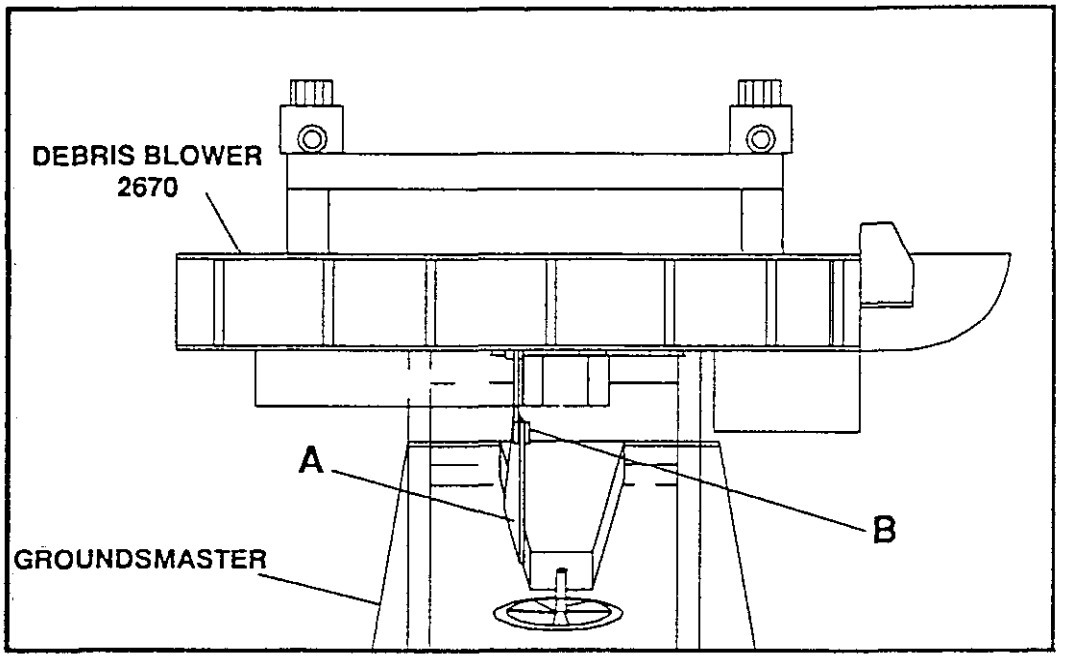


Figure 3

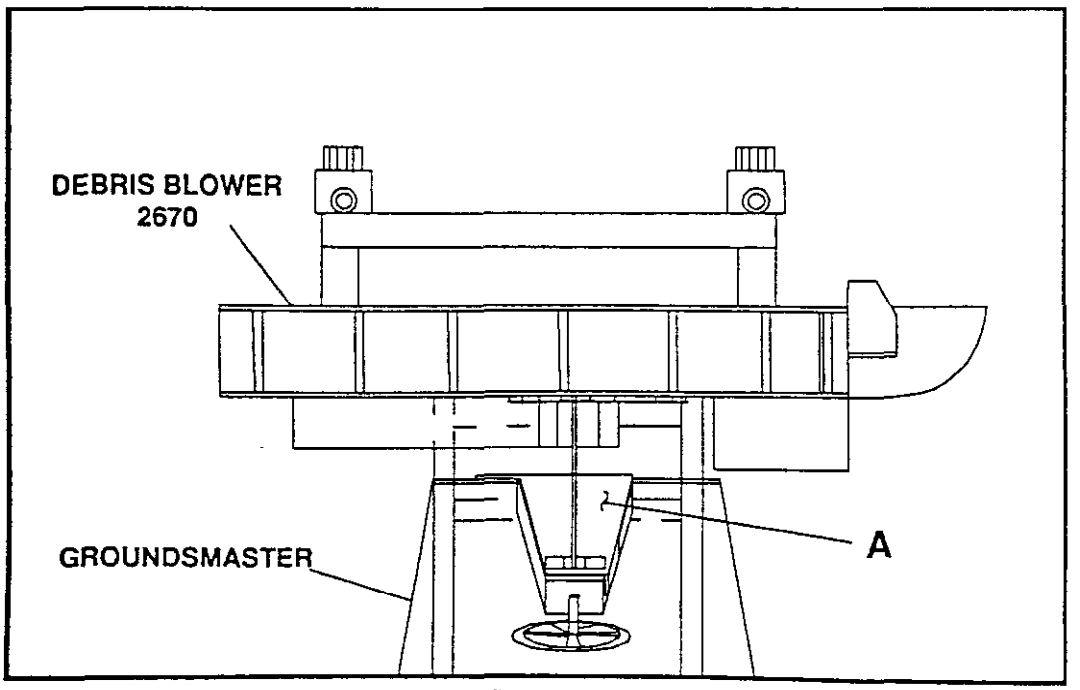


Figure 4

BEFORE OPERATING (Continued)

ONE PIECE CARRIER FRAME - ALL 200 SERIES (Fig. 5)

7. Remove the lift arms from the Groundsmaster. Refer to the mowing deck Operator's Manual.

8. Install the Mounting Frame to the lower tube (A) on the blower using the lower mounting pin to attach. Secure on both ends with the presto pins.

9. Slide the Mounting Frame under the Groundsmaster.

10. Line up the holes in the Groundsmaster with the holes in the Mounting Frame (B). Pull up the Mounting Frame and secure with the mounting pins. Attach a presto pin in each end of the mounting pins.

11. Attach the cylinders on the Groundsmaster to the ears on the end of the Mounting Frame (C).

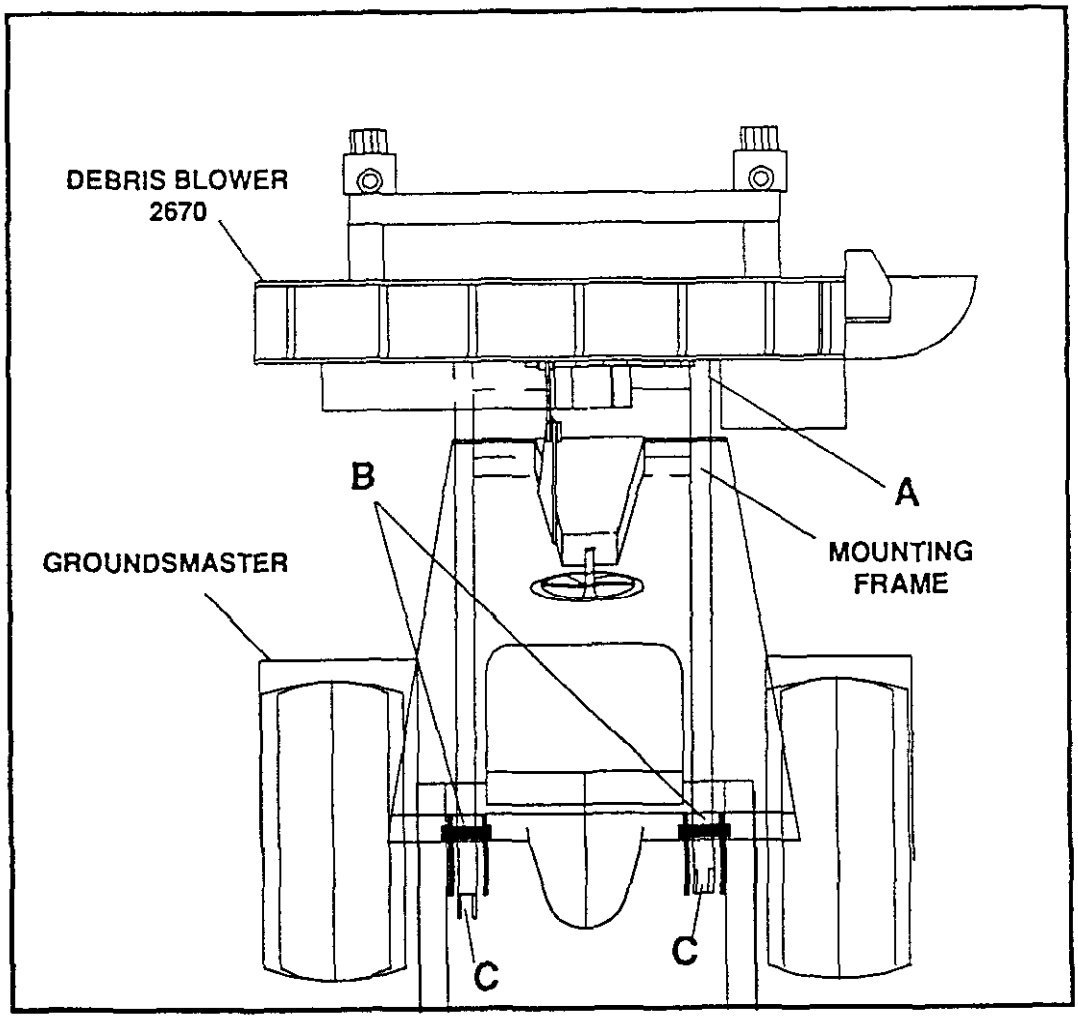


Figure 5

TWO PIECE CARRIER FRAME - ALL 200 SERIES (Fig. 6)

12. Install the Mounting Frame to the lower tube (A) on the blower using the lower mounting pin to attach. Secure on both ends with the presto pins.

13. Line up the holes in the Mounting Frame (B) to the right and left lift arms on the Groundsmaster.

14. Secure with the existing bolts on the Groundsmaster.

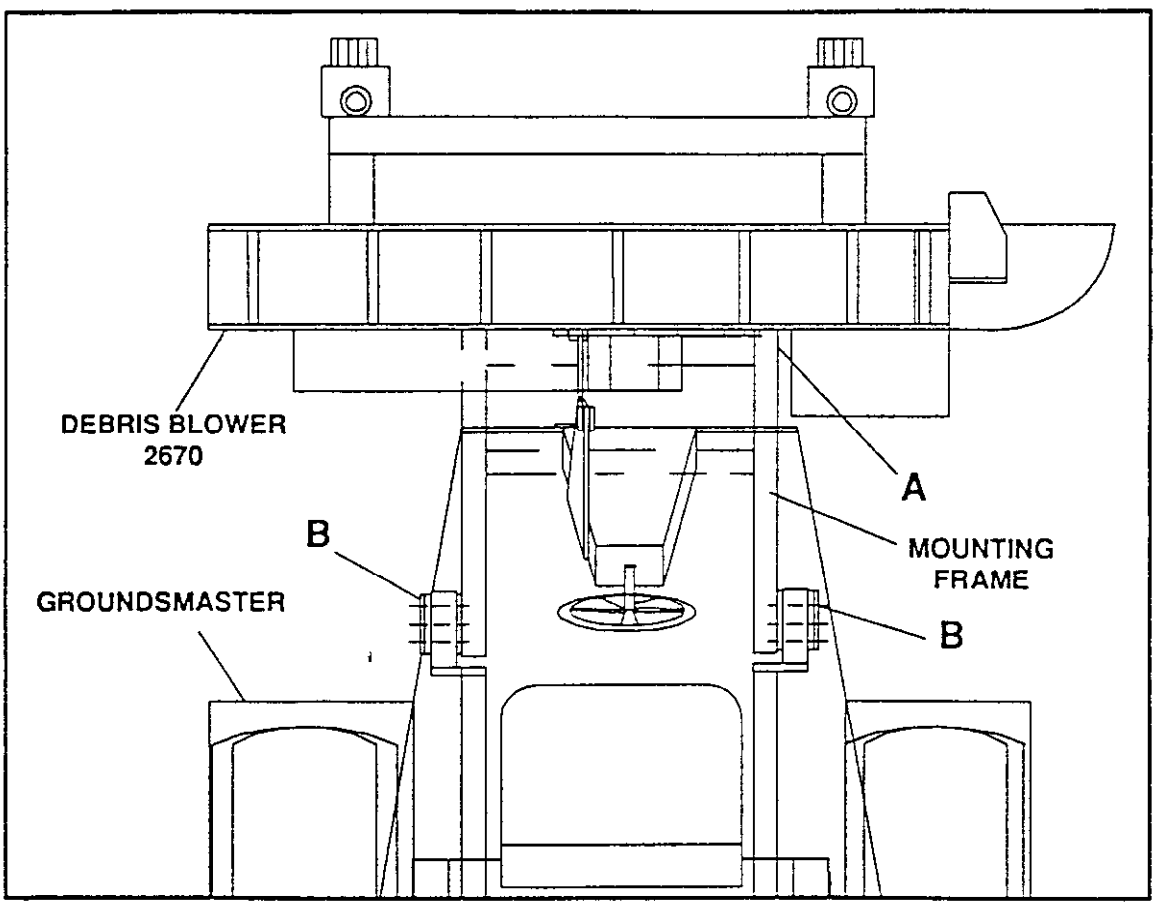


Figure 6

OPERATING INSTRUCTIONS

1. Start the Groundsmaster and run at a low RPM.

2. Lower the blower using the Groundsmaster lift mechanism.

3. Engage the PTO while the engine is at idle speed.

4. Bring the PTO speed to full speed or 1800 RPM.

5. Practice blowing material. It is advisable to blow the same direction the wind is blowing to prevent material from blowing back into the cleared area.

TRANSPORTING BLOWER

1. Lower the engine speed to idle position.

2. Disengaged the PTO and wait for the PTO to come to a complete stop.

3. Raise the blower to transport position.

LUBRICATION

BEARINGS (Fig. 7)

The blower has two self sealing bearings that must be lubricated with a No. 2 Lithium based grease.

IMPORTANT: Lubricate the bearings to maintain a slight leakage on the seals. Too much grease can cause overheating.

WHEELS (Fig. 7)

Under normal conditions, grease the wheels and the wheel pivot tubes every 50 hours of use. Use a No. 2 Lithium based grease.

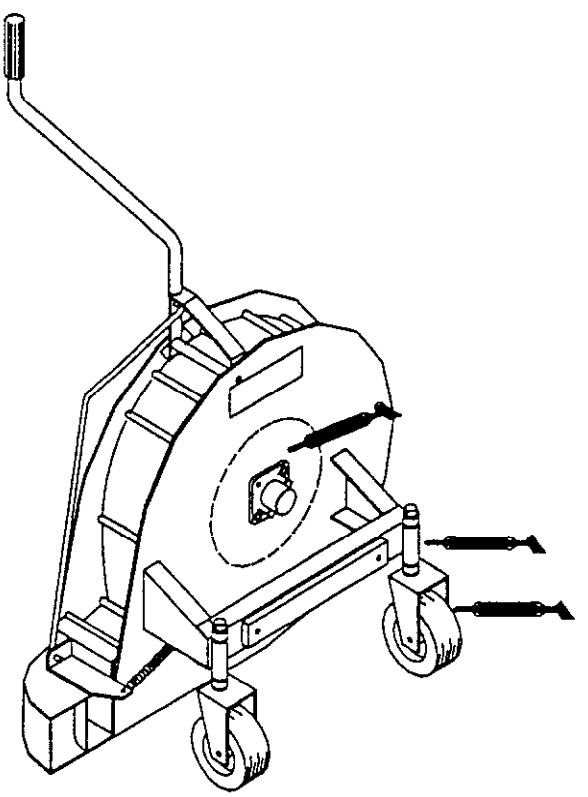


Figure 7

TROUBLESHOOTING

CONDITION	CAUSE	CORRECTION
FAN QUIT TURNING	• 1. (200 Series)Remove guard. Check for broken belt or tension of the belt.	• 1. Replace belt or adjust the tension of the belt.(See adjustments in manual)
	• 2. (200 Series) Check to see if lower pulley is still turning. Bearing pressed in the bearing mount may be damaged.	• 2. Replace the bearing, use #609 loctite when replacing.
	• 3. (300 Series) Check PTO adapter for sheared bolt.	• 3. Replace bolt.
EXCESSIVE VIBRATION	• 1. Check bearings on fan shaft for damage.	• 1. Replace bearings.
	• 2. Look into opening of deflector, check for material build up on fan blades.	• 2. Clean off any build up inside the housing.
LACK OF ADEQUATE AIR FLOW	• 1. Check air slots on back and front side panels. Slots may be clogged with debris.	• 1. Clean out any debris from slots.
	• 2. RPM on tractor to slow.	• 2. Bring PTO speed to 540 RPM.
	• 3. Throttle adjustment on tractor not working.	• 3. Repair throttle.
	• 4. (200 Series) Make sure engine is up to specifications.	• 4. Make any necessary repairs.
	• 5. (200 Series) Check tension of the belt, there may be slippage.	• 5. Adjust belt tension . See belt adjustments in the manual.

STORAGE

1. Thoroughly clean the blower. The fan housing should be free of dirt, leaves and debris.

2. Lubricate all grease fittings. Wipe off any excess lubricant.

3. Place a light coat of grease on the splines of the PTO adapter.

4. Tighten all fasteners.

IDENTIFICATION AND ORDERING

MODEL AND SERIAL NUMBER.

The BLOWER 2670 has two identification numbers: a model number and serial number. The two numbers are stamped on a plate which is located on the housing. In any correspondence concerning the BLOWER 2670, supply model and serial numbers to be sure that the correct information and replacement parts are obtained.

To order replacement parts from an authorized TORO Distributor, supply the following information:

1. Model and serial numbers of the machine.

2. Part number, description and quantity of parts desired.

Note: Do not order by reference number if a parts catalog is being used; use the part number.

MAINTENANCE CHART

Date	Hours Used	Lubrication	Storage					

The Toro Promise

A ONE YEAR LIMITED WARRANTY

The Toro Company promises to repair your TORO Product if defective in materials or workmanship. The following time periods from the date of purchase apply:

Commercial Products ..... 1 Year

The costs of parts and labor are included, but the customer pays the transportation costs on walk rotary mowers with cutting widths of less than 25".

If you feel your TORO product is defective and wish to rely on The Toro Promise, the following procedure is recommended:

1. Contact your Authorized TORO Distributor or Commercial Dealer (the Yellow Pages of your telephone directory is a good reference source).
2. The TORO Distributor or Commercial Dealer will advise you on the arrangements that can be made to inspect and repair your product.
3. The TORO Distributor or Commercial Dealer will inspect the product and advise you whether the product is defective and,if so, make all repairs necessary to correct the defect without an extra charge to you.

If for any reason you are dissatisfied with the distributor's analysis of the defect or the service performed, you may contact us.

Write:

TORO Commercial Products Service Department
100 Industrial Parkway
Industrial Airport, Ks. 66031

The above remedy of the product defects through repair by an Authorized TORO Distributor or Commercial Dealer is the purchaser's sole remedy for any defect.

THERE IS NO OTHER EXPRESS WARRANTY. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine maintenance of the unit to keep it in proper condition is the responsibility of the owner.

All warranty repairs reimbursable under the Toro Promise must be performed by an Authorized TORO Commercial Dealer or Distributor using Toro approved replacement parts.

Repairs or attempted repairs by anyone other than an Authorized TORO Distributor or Commercial Dealer are not reimbursable under the Toro Promise. In addition, these unauthorized repair attempts may result in additional malfunctions, the correction of which is not covered by warranty.

THE TORO COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT INCLUDING ANY COST OR EXPENSE OF PROVIDING SUBSTITUTE EQUIPMENT OR SERVICE DURING PERIODS OF MALFUNCTION OR NON-USE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or 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.