

ATTACHMENT OPERATOR'S MANUAL



Turbo Vacuum System for 46" & 52" Mower Decks

Mfg. No.	Description
1695642	Turbo Vacuum Collection System

Tractor

*Not for
Reproduction*

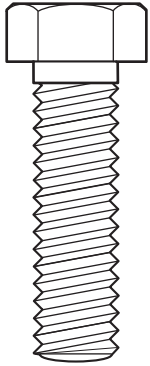
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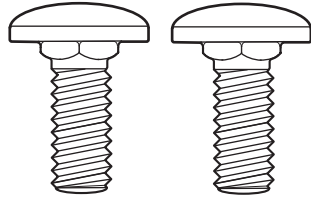
NOTE: In these instructions, “left” and “right” are referenced from the operating position.

Hardware Bag Contents

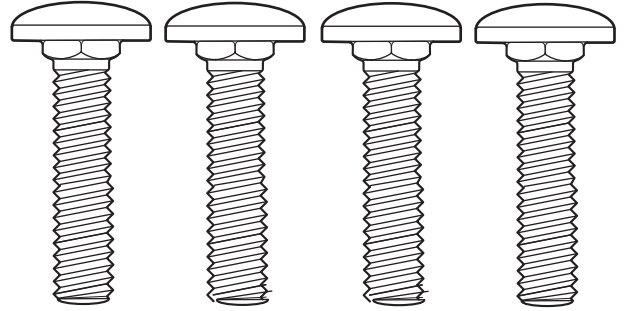
A - CAPSCREW,
7/16"-14 x 1.50" (Qty. 1)



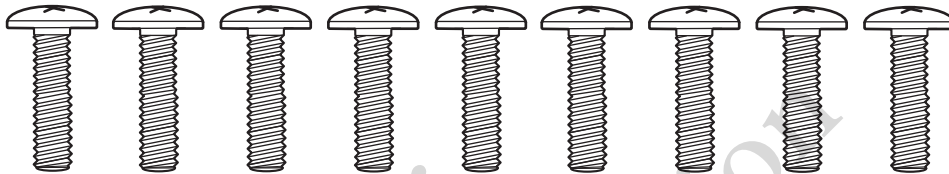
B - CARRIAGE BOLT,
5/16"-18 x .75" (Qty. 2)



C - CARRIAGE BOLT,
5/16"-18 x 1.25" (Qty. 4)



D - SCREW,
#10-24 x .75" (Qty. 9)



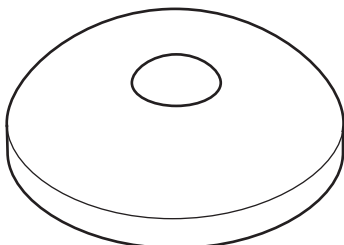
E - NUT, FLANGE,
5/16"-18 (Qty. 6)



F - NUT,
#10-24 (Qty. 9)



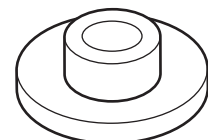
G - SPRING WASHER,
.475" ID x 1.75" OD x .156" THK (Qty. 1)



H - WASHER,
.20" ID x .50" OD x .05" THK (Qty. 2)



I - SPACER, SINGLE STEP,
.194"- .34" x 1.00" (Qty. 1)



Hardware Bag Contents

AA - SPACER



AB - TURBO DRIVE PULLEY



AJ - FLANGE SEAL



AK - COVER SEAL



AC - IDLER COVER SUPPORT



AD - TURBO BELT COVER



**AE - PIVOT BRACKET
46" Mower**



**AF - PIVOT BRACKET
52" Mower**



**AG - ADJUSTABLE GAGE
WHEEL ASSEMBLY
Front**



**AH - ADJUSTABLE GAGE
WHEEL ASSEMBLY
Rear**



AI - TURBO ASSEMBLY



AL - LOWER TUBE



**AM - UPPER TUBE
52" Mower**



**AN - UPPER TUBE
48" Mower**



AO - DEFLECTOR PLATE



AP - COVER EDGING





Read these safety rules and follow them closely. Failure to obey these rules could result in loss of control of unit, severe personal injury or death to you, or bystanders, or damage to property or equipment. The triangle ▲ in text signifies important cautions or warnings which must be followed.

See Rider Operators Manual

General Warnings

- Know the unit's controls and how to stop quickly. **READ THE OPERATOR'S MANUALS.**
- Read and obey all safety decals.
- Only allow responsible adults, who are familiar with the instructions, to operate the unit.
- Disengage the PTO. Shut off the engine and wait for all moving parts to stop before attaching, adjusting, or disconnecting any part of the collection system.
- Check the collection system to make sure it is bolted tightly to the unit.
- **DO NOT** operate the unit without either the entire grass catcher or the deflector in place.
- Turn off the PTO to disengage the blades when not mowing.
- **DO NOT** mow in reverse unless absolutely necessary. Always look down and behind before and while travelling in reverse.
- **DO NOT** turn sharply when travelling alongside a building or any object. Slow down before turning.
- **DO NOT** carry passengers.
- When collection system is removed from the mower deck, the deflector must be properly installed.
- Collector bags are subject to deterioration and wear during normal use. Inspect the bag periodically for tears, holes, or weak spots and replace with a new bag that meets manufacturer's durability standards.
- For added stability and to prevent tipping or loss of control:
 - a. Use reduced speed on uneven ground and when turning corners.
 - b. Reduce loads on hillsides. It is recommended that the collection system be kept only half full when negotiating any slopes. Start mowing on slopes when the collection system is empty.
 - c. Mow up and down the face of slopes; never across the face of any slope.
- **Never operate on slopes greater than 17.6% (10°).**

Safety Decals

Several safety labels are installed on the unit to remind you of important information while you are operating your unit.

All DANGER, WARNING, CAUTION and instructional messages on your rider, attachments and mower should be carefully read and obeyed. Personal bodily injury can result when these instructions are not followed. The safety decals below are on your product.

If any decals are lost or damaged, replace them at once. See your local dealer for replacements.

These labels are easily applied and will act as a constant visual reminder to you, and others who may use the equipment, to follow the safety instructions necessary for safe, effective operation.

Attachment Decal

Decal - WARNING Thrown Objects Hazard

Part Number - 1732819

WARNING

Before beginning any service work turn off the PTO, set the parking brake, turn off the ignition, and disconnect the spark plug wire(s).

Before attaching turbo, install bagger first. See Bagger Operator Manual

Remove Height of Cut Bracket & Indicator-Roller Bar Mowers:

1. Remove the bolt and nut (*, Figure 1) securing height of cut indicator (**). Retain indicator, bolt and nut.
2. Remove screws (***) and height of cut bracket (****). Re-install screws.

Note: Retain the height of cut bracket for use without turbo attached.

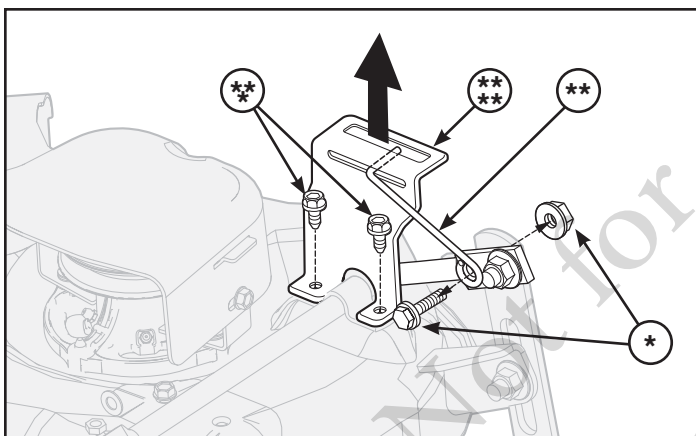


Figure 1

Remove RH Arbor Cover & Pulley Hardware

1. Remove screws (*, Figure 2) and belt cover (**).

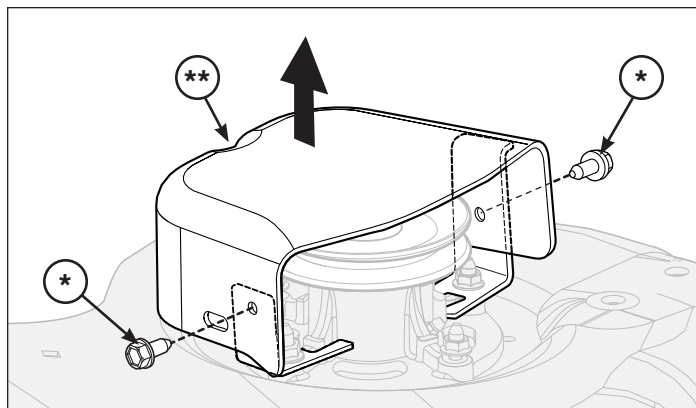


Figure 2

2. Remove nuts (*, Figure 3) from rear bracket and front bracket (**).
3. Remove drive belt(s).

Important: Note the drive belt routing prior to removal for proper installation.

4. Remove capscrew, lockwasher and spacer from pulley (***).

Note: Retain capscrew, lockwasher and spacer for use without turbo attached.

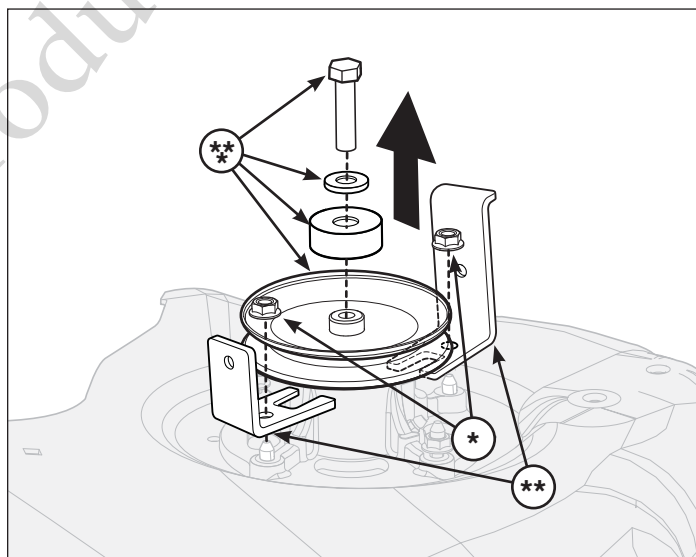


Figure 3

Assembly

Install Turbo Drive Pulley

1. Assemble spacer (AA, Figure 4), turbo drive pulley (AB), spring washer (G) and capscrew (A) to existing pulley on mower. Use a wood block to prevent blade rotation and torque capscrews to 50 - 60 ft. lbs. (67.7 - 81.3 Nm).
2. Place idler cover support (AC) onto mounting screws (*) and secure with nuts (E).

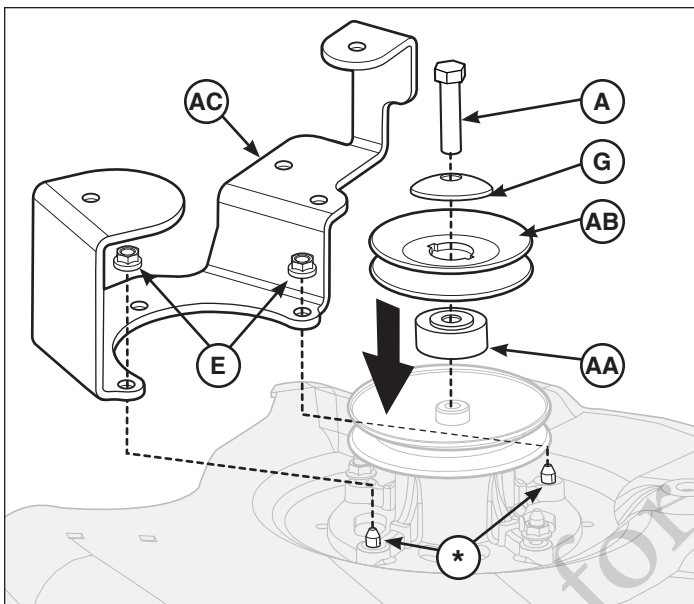


Figure 4

3. The idler pulley (*, Figure 5) is pre-assembled onto the idler cover support (AC). Placement of the pulley needs to be assembled in the appropriate hole to accommodate the 46" or 52" mower as shown in Figure 5.

NOTE: Assemble pulley with the hub facing down.

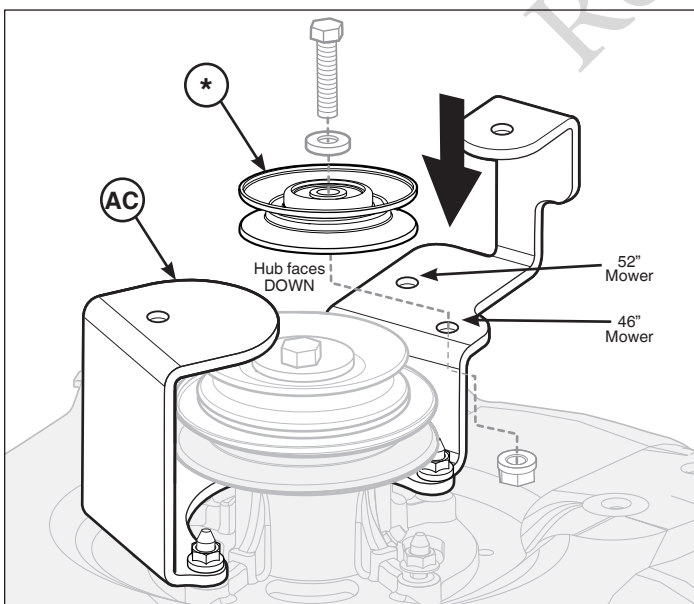


Figure 5

4. The height of cut bracket (*, Figure 6) is pre-assembled onto the turbo belt cover (AD). Placement of the bracket needs to be assembled in the appropriate hole placements to accommodate the 46" or 52" mower decks. See Figure 6.

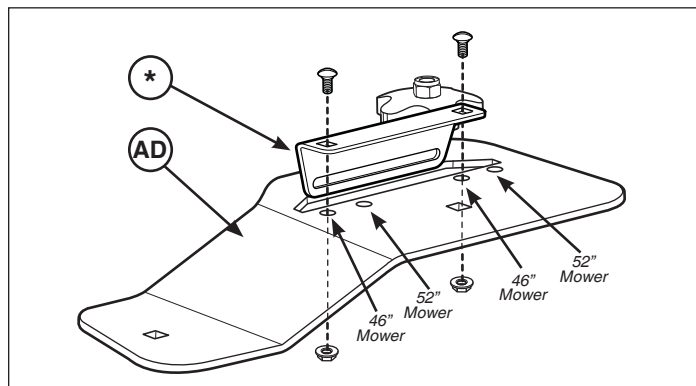


Figure 6

5. Place turbo belt cover (AD, Figure 7) onto idler cover support (AC).
6. Insert carriage bolts (B) through turbo belt cover and secure with nuts (E).

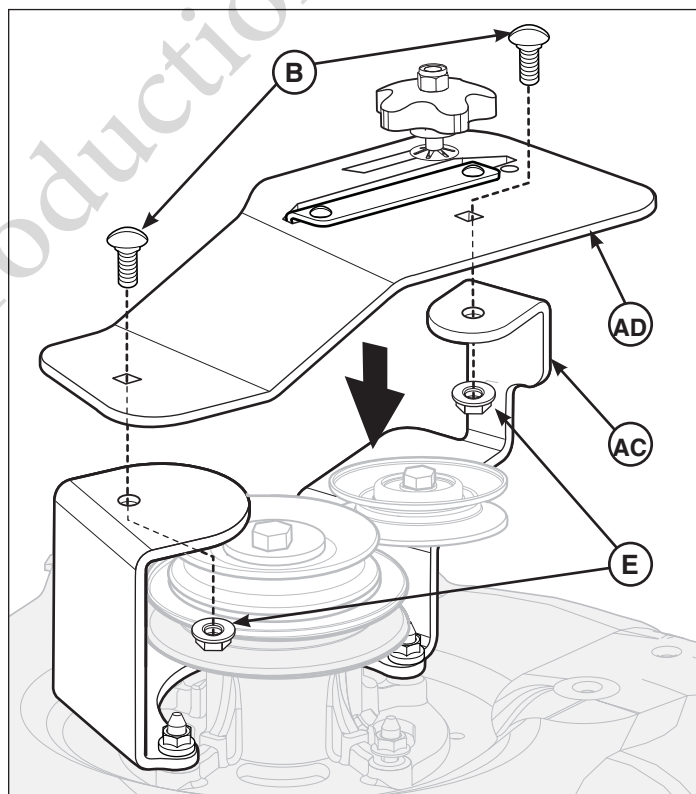


Figure 7

Install Height of Cut Pointer

Roller Bar Mowers:

1. Insert existing height of cut indicator (*, Figure 8) through slot (**) on turbo belt cover as shown.
2. Secure with existing bolt and nut (***)

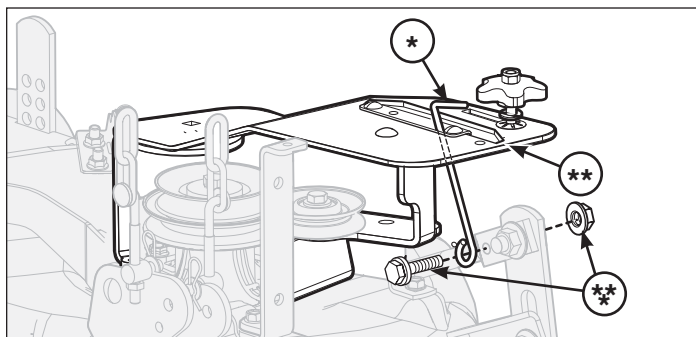


Figure 8

Install FRONT Pivot Bracket & Gage Wheel Assembly

NOTE: This is for tractor models ONLY.

1. Select proper pivot bracket for the 46" or 52". See Figure 9.
- Note: 46" Mowers (AE) - Spacer provided with pivot bracket.*
52" Mowers (AF) - Pivot bracket only (no spacer).

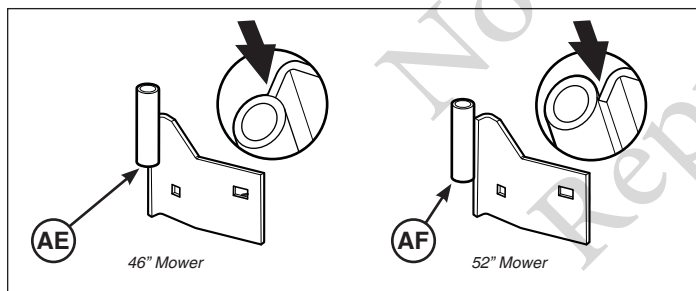


Figure 9

Frame Hung Mowers

1. On the right side of the discharge opening, remove nuts, bolts (*, Figure 10) and front wheel gage assembly (**).

Note: Retain nuts, bolts and front wheel gage assembly for use without turbo attached.

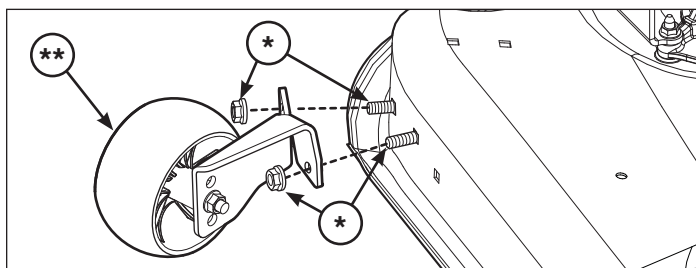


Figure 10

46" Frame Hung Mowers:

Note: Finger tighten turbo hardware for initial assembly.

1. From inside of mower, insert carriage bolt (C, Figure 11) through hole closest to the right of the discharge opening.
2. Assemble spacer (I), 46" mower pivot bracket (AE) and front adjustable wheel gage assembly (AG). Secure with nut (E).
3. From inside of mower, insert carriage bolt (C) through hole, 46" mower pivot bracket and front adjustable wheel gage assembly. Secure with nut (E).

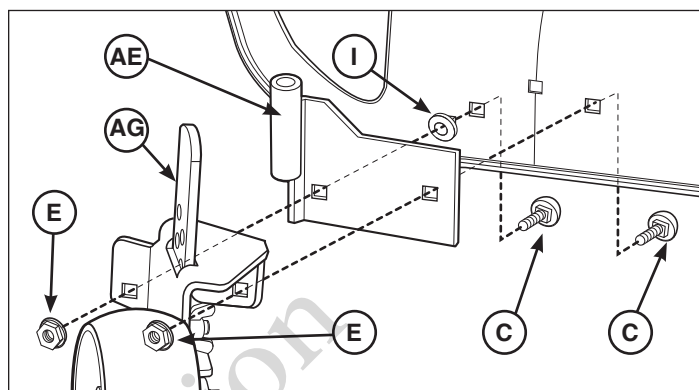


Figure 11

52" Frame Hung Mowers:

Note: Finger tighten turbo hardware for initial assembly.

1. From inside of mower, insert carriage bolt (C, Figure 12) through hole closest to the right of the discharge opening.
2. Assemble 52" mower pivot bracket (AF) and front adjustable wheel gage assembly (AG). Secure with nut (E).
3. From inside of mower, insert carriage bolt (C) through hole, 52" mower pivot bracket and front adjustable wheel gage assembly. Secure with nut (E).

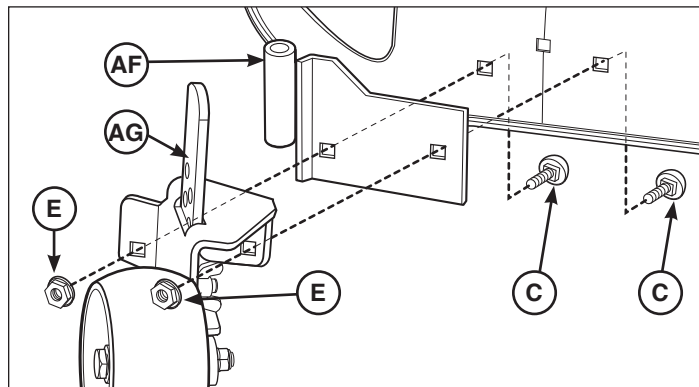


Figure 12

Assembly

46" Roller Bar Mowers:

Note: Finger tighten turbo hardware for initial assembly.

1. From inside of mower, insert carriage bolt (**C**, Figure 13) through holes closest to the right of the discharge opening.
2. Assemble spacer (**I**) and 46" mower pivot bracket (**AE**). Secure with nut (**E**).
3. From inside of mower, insert carriage bolt (**C**) through hole and 46" mower pivot bracket. Secure with nut (**E**).

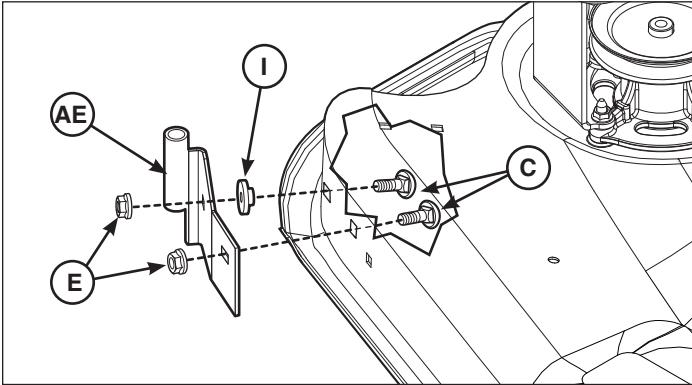


Figure 13

52" Roller Bar Mowers:

Note: Finger tighten turbo hardware for initial assembly.

1. From inside of mower, insert carriage bolts (**C**, Figure 14) through holes closest to the right of the discharge opening.
2. Assemble 52" mower pivot bracket (**AF**). Secure with nuts (**E**).

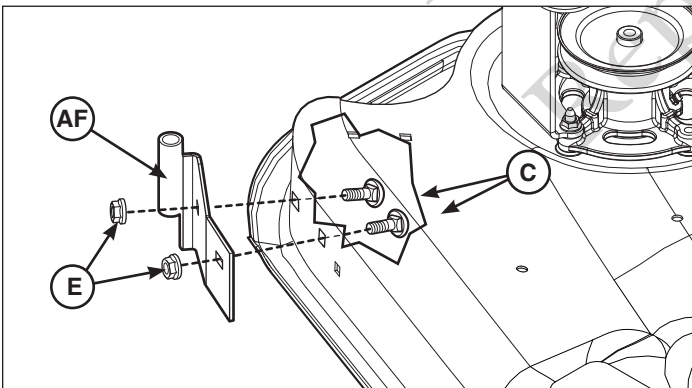


Figure 14

Install BACK Gage Wheel Assembly

NOTE: This is for tractor models ONLY.

Frame Hung Mowers

1. To the left of the discharge opening, remove nuts (*, Figure 15) and rear gage wheel assembly (**). Retain nuts.

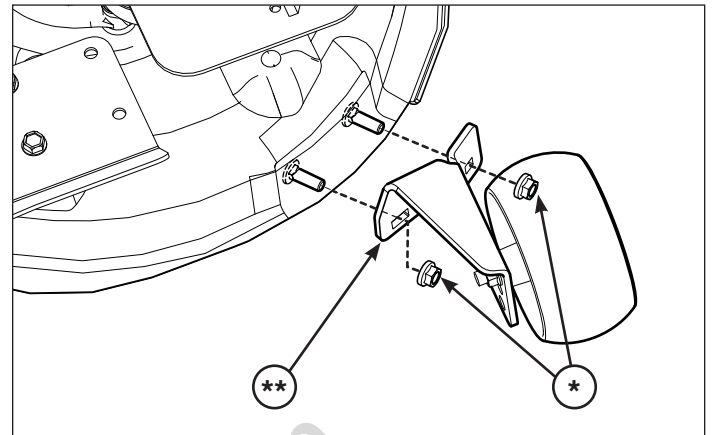


Figure 15

2. Assemble adjustable gage wheel assembly (**AG**, Figure 16) onto bolts (**C**). Secure with existing nuts (*).

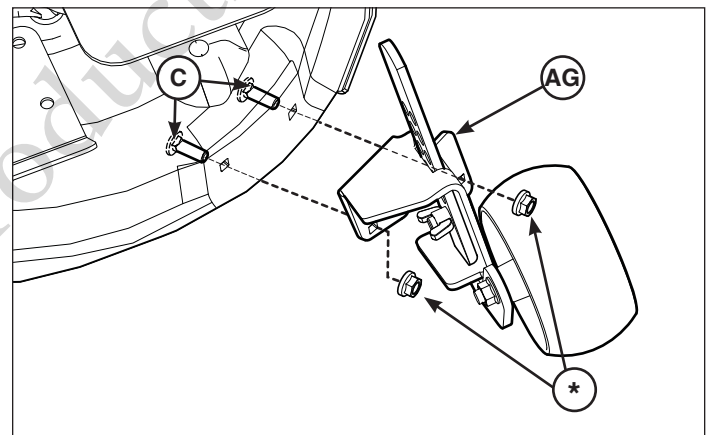


Figure 16

Install Turbo Assembly

Install mower to the tractor AND mower drive belt. See tractor Operator's Manual.

Note: Before attaching turbo to mower, select preferred height of cut and adjust wheel gage to ground. See Operator's Manual for mower deck adjustment.

1. Loosen, *DO NOT* remove, the two nuts on the bolts (*, Figure 17) of turbo assembly (AI).
2. Loosen knob on turbo belt cover (AD).
3. Insert turbo pivot pin (**) through mower pivot bracket (AE or AF).
4. Lift up deflector.

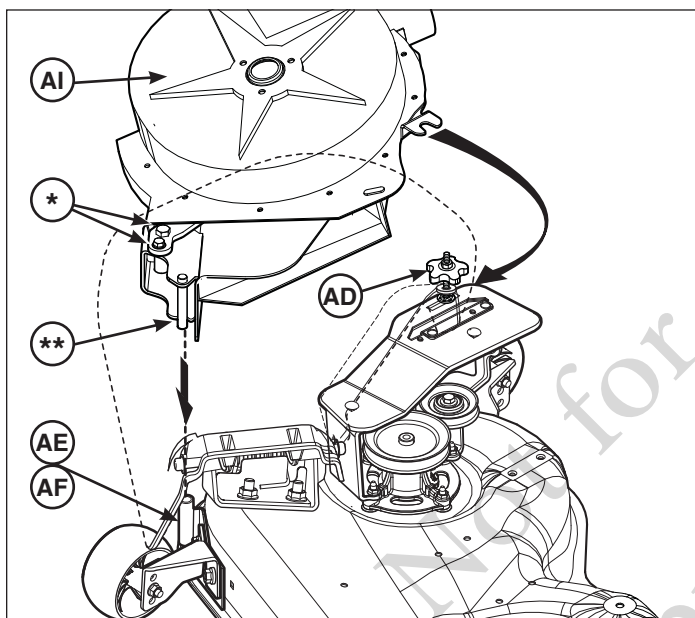


Figure 17

5. Pull belt tension lever (*, Figure 18) away from deck and latch end of lever behind bolt (**).

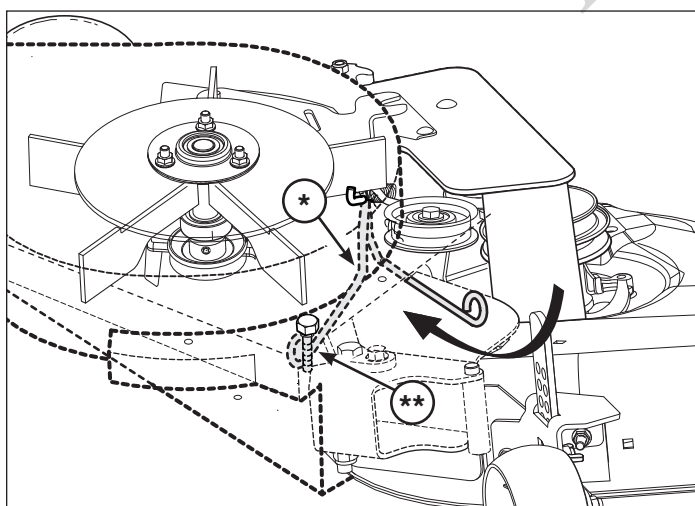


Figure 18

6. Rotate turbo assembly (AI, Figure 19) and insert corner underneath deflector bracket (*) as shown.

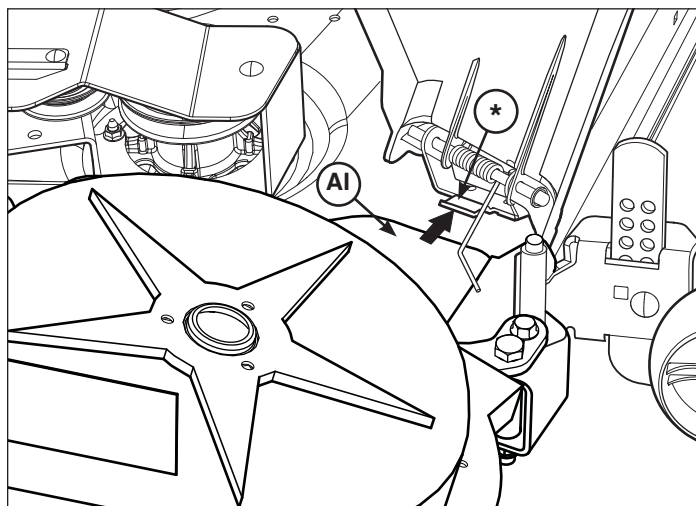


Figure 19

7. Insert slot of turbo assembly mounting latch (*, Figure 20) firmly onto bolt and underneath knob and washer. Tighten knob.

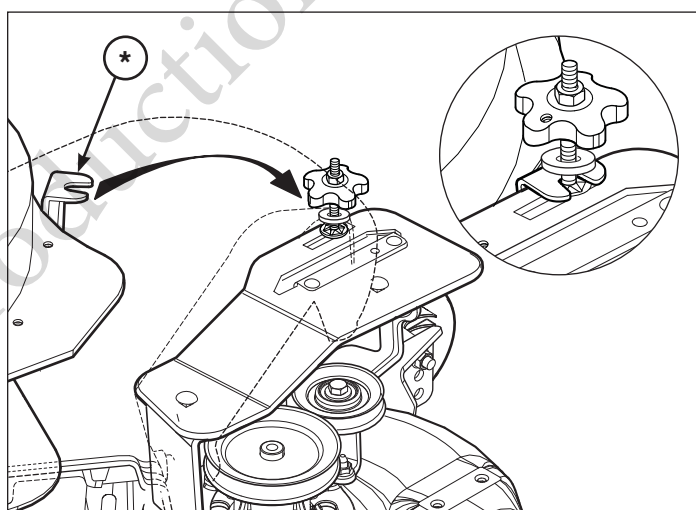


Figure 20

Install Belt

1. Install the turbo drive belt (*, Figure 21) on the pulleys (** and ***) as shown.

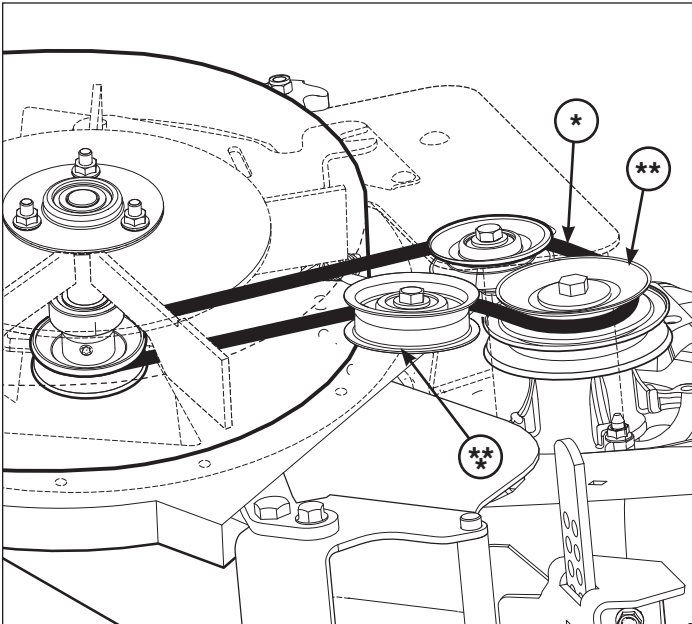


Figure 21

2. Release tension belt lever (*, Figure 22) from bolt (**).

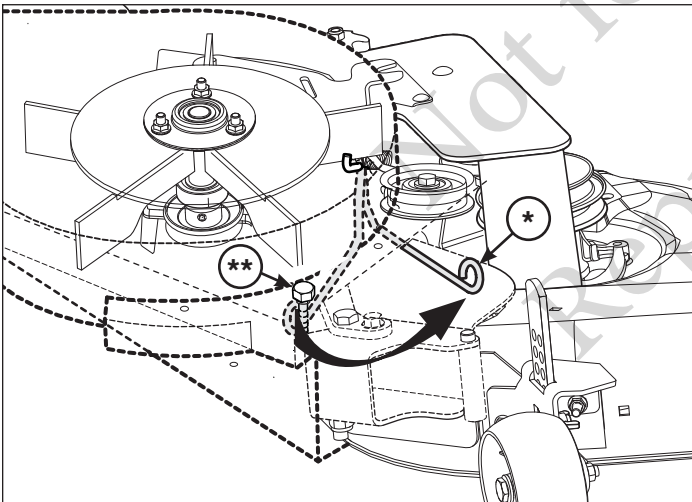


Figure 22

Tighten Turbo Hardware

1. Push turbo up against mower as shown in Figure 23.

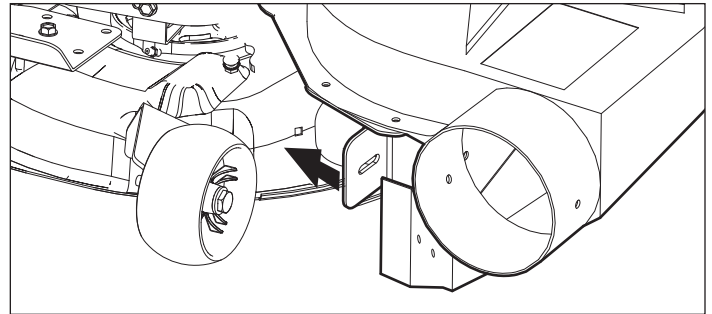


Figure 23

2. If the turbo drive pulley (**, Figure 21) is NOT in line with the turbo fan idler pulley (***), loosen nuts on front pivot bracket (See Figure 11, 12, 13 or 14).
3. Adjust the front pivot bracket until both pulleys are in line. It may be necessary to rotate bracket clockwise.
4. Tighten hardware of front pivot brackets and gage wheels assembled in Figure 11, 12, 13 or 14.
5. Tighten both bolts and nuts (****) of turbo assembly as shown in Figure 24 .

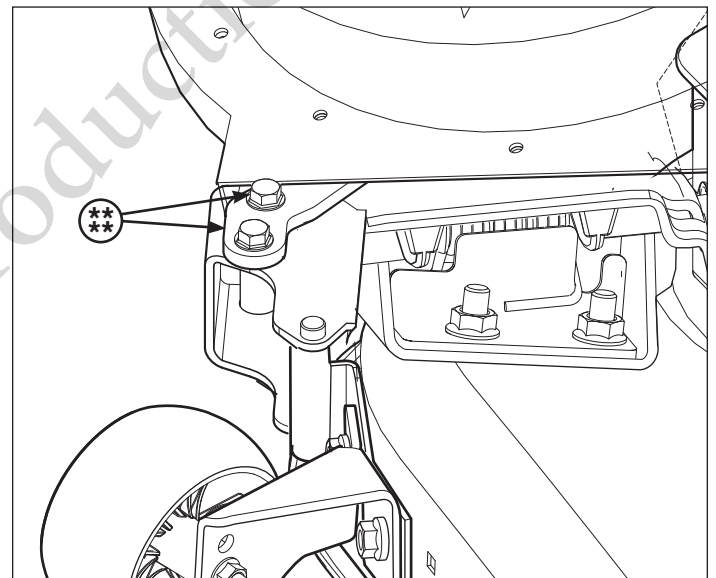


Figure 24

CAUTION

Before you begin operating the unit with the Turbo attached, be certain you have read all of the safety information in this Operator's Manual, as well as the Operator's Manual for the tractor and any grass catchers or other collection devices used in conjunction with this turbo blower.

Install Seal, Cover and Tubes

1. Use flange seal (**AJ**, Figure 25) as a template to drill six 13/64" holes (*) on grass catcher cover (**).

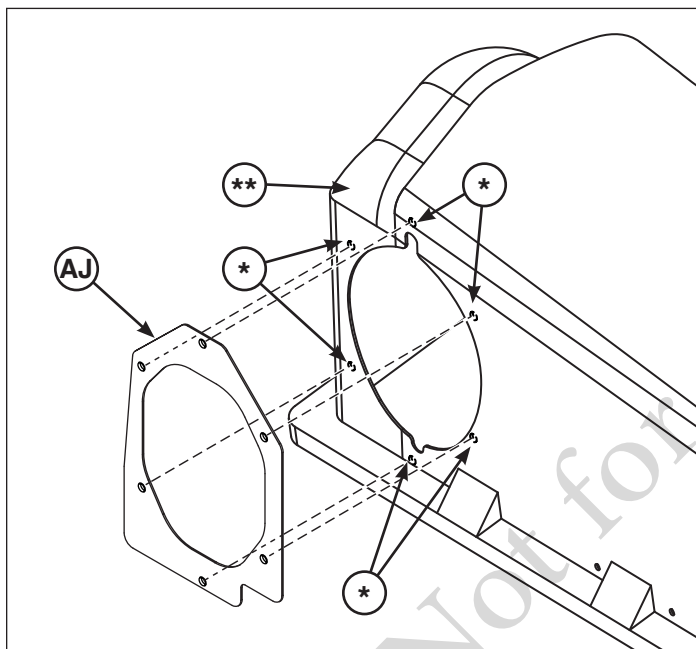


Figure 25

2. Inside grass catcher cover (*, Figure 26) place cover seal (**AK**) and flange seal (**AJ**). Secure using six screws (**D**) and nuts (**F**).

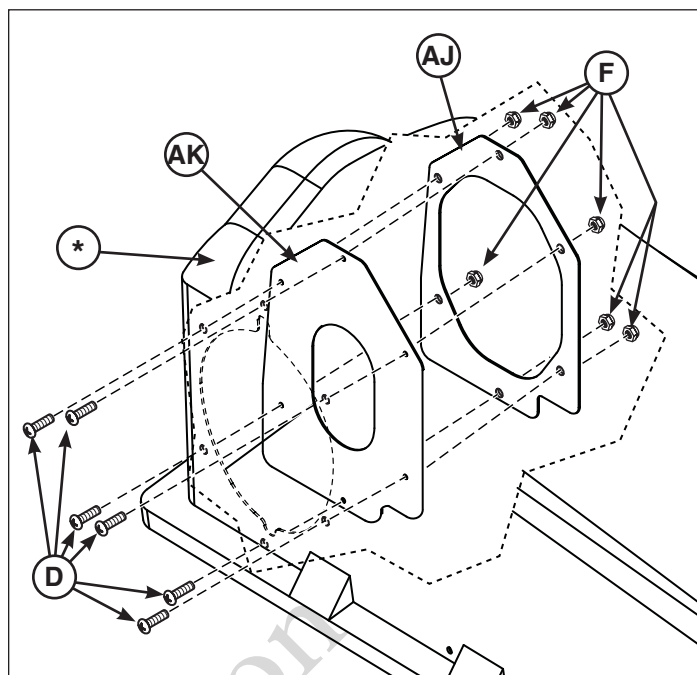


Figure 26

Note: There are two assembly holes in the lower tube (**AL**). The top hole (nearest the end of the tube) is used for Broadmoor, Prestige and Conquest models. The second hole from the end of the tube is for all Regent models.

3. Select correct size of mower deck:
 - 46" Mower - 25.1" (**AN**)
 - 52" Mower - 26.3" (**AM**)
4. Slide upper tube (**AM / AN**, Figure 27) over lower tube (**AL**) and secure with screw (**D**), washers (**H**) and nut (**F**).

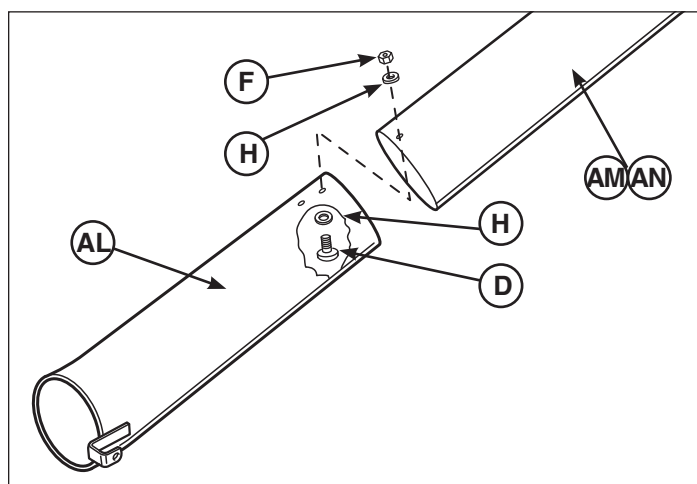


Figure 27

Tube & Turbo Removal

Attach Triple Collector Plate & Edging

1. Hold deflector plate (AO, Figure 28) in cover (*) and mark new hole locations using deflector plate as a guide. Use Figures 28 and 29 as a reference to determine correct hole locations.
2. Drill two 7/32" holes (**) in the locations marked in the previous step.
3. Secure deflector plate to cover using screws (D) and nuts (F).

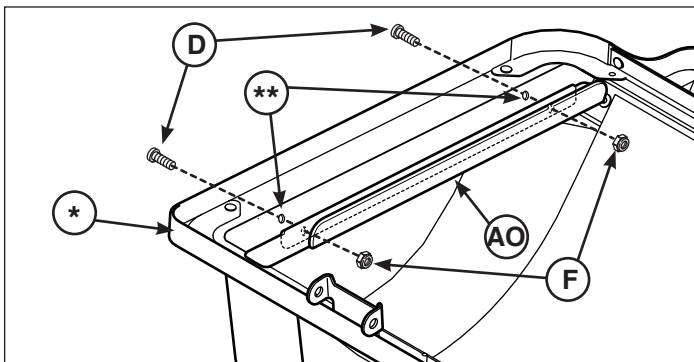


Figure 28

IMPORTANT: The deflector plate (AO, Figure 29) SHOULD NOT over-lap the corner supports (*).

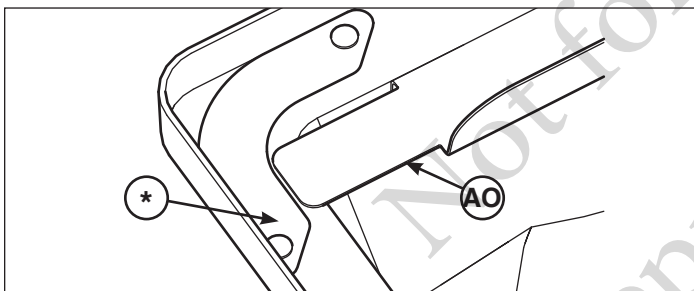


Figure 29

4. From inside of the grass collector, slide the cover edging (AP, Figure 30) onto the cover starting at the left side of the hinge edge (*) to the corner (**) on the cover edge as shown.

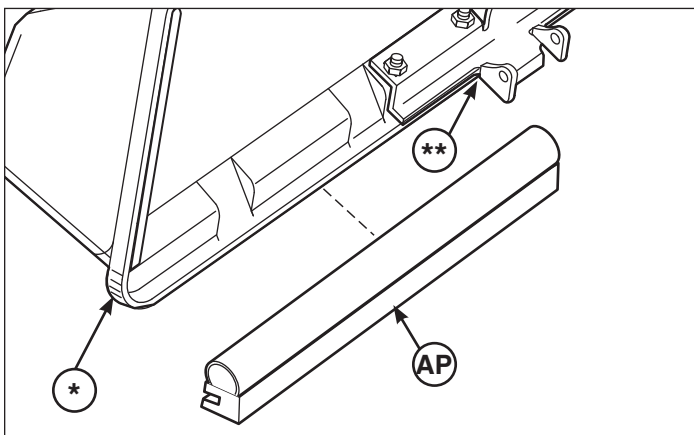


Figure 30

Install Cover & Collector Bag

Refer to Bagger Operator's Manual.

Tube Installation

1. Slide the discharge end of tube assembly (*, Figure 31) through the cover seal (AK). This may require some rotating of the discharge end of tube assembly.

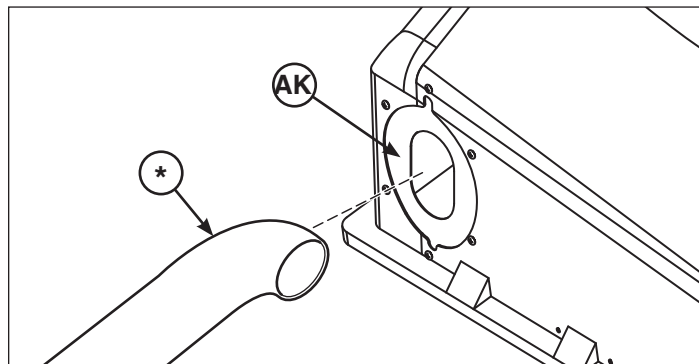


Figure 31

2. Slide the intake end of tube assembly (*, Figure 32) over the turbo outlet (AI).
3. Lift clip (**) over nut and capscrew (***) to secure tube to turbo.

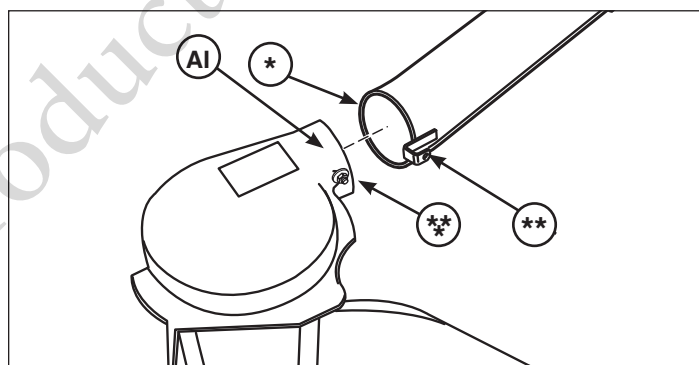


Figure 32

⚠ WARNING

Operation Without Turbo, tube and Bagger

For operation without turbo, tube and bagger, the mower deflector **MUST** be properly installed in the down position and retained by the spring latch.

Turbo & Tube Removal

1. Place the mower deck in the highest cut position.
2. Lift clip (*, Figure 33) over nut and capscrew (**), remove intake end of tube assembly (***) and disconnect turbo (AI).

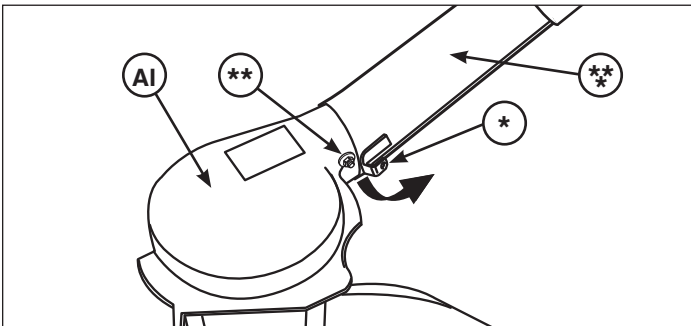


Figure 33

3. Slide the discharge end of tube assembly out of seal (AK, Figure 34) and remove tube assembly.

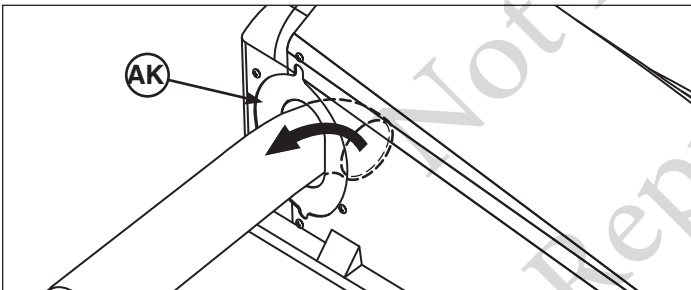


Figure 34

4. Pull belt tension lever (*, Figure 35) away from the discharge opening to remove tension from the belt.
5. Remove turbo drive belt.

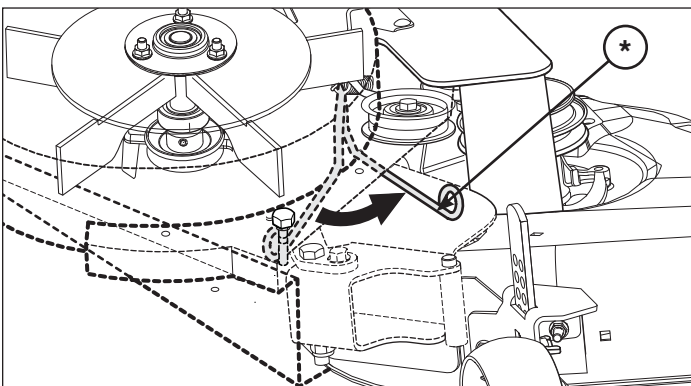


Figure 35

6. Loosen knob (*, Figure 36) on turbo belt cover (AD).

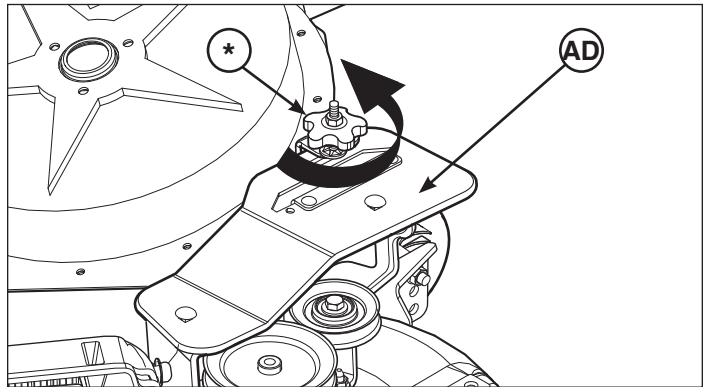


Figure 36

7. Lift deflector and rotate turbo away from mower deck.
8. Pull out turbo pivot pin (*, Figure 37) from turbo pivot bracket (AE / AF).
9. Follow the Bagger Operator's Manual for removal of catcher components.

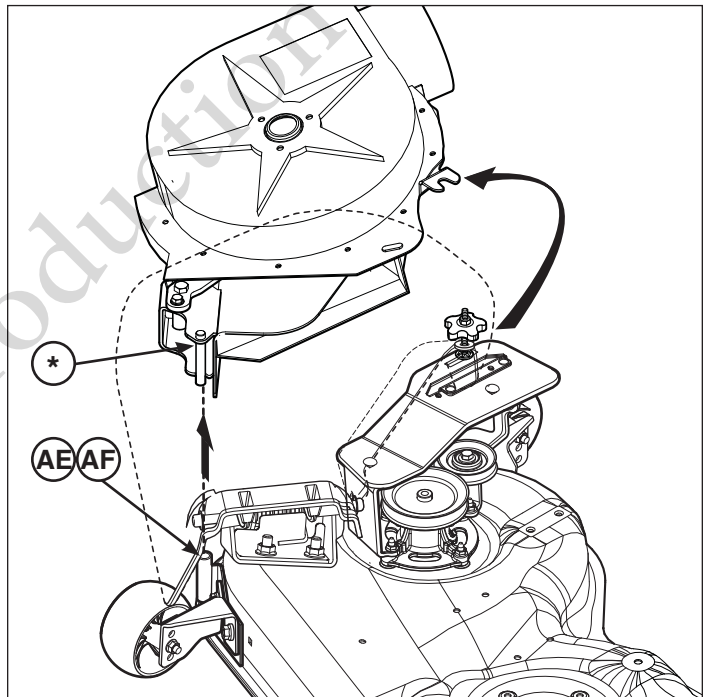


Figure 37

Operation

Before Operation

Clear the lawn of all sticks, stones, wire and other debris which may be caught or thrown by the mower blades.

Check grass condition. If wet, wait until later in the day. If grass is wet, as the grass catcher is likely to become plugged.

For efficient grass collection, air circulation under the mower deck, through the chute and into the grass catcher or cart is very important.

For this reason, BEFORE YOU BEGIN MOWING you should make certain the underside of the mower and the underside of the catcher lid are free from grass and debris.

Make sure that there is a snug fit between mower deck, blower housing, tubes, and grass catcher cover.



Mowing WITH the Turbo

Always operate with throttle at full speed when mowing.

Grass should be cut often, and not too short. If grass is too long or lush it may be necessary to keep ground speed to a minimum or to cut only half the width of the mower to prevent clogging. If grass is long, operate with mower in high cutting position for first pass, cutting again in a lower position on a second pass.

To check if grass is flowing up tube, view tube. Do not open cover with mower engaged.

If a large amount of cut grass is spilling out from under deck, the tube may be plugged or the catcher may be full—discontinue mowing, stop the tractor, disengage the PTO and then empty the catcher or clear the tube.

WARNING

ALWAYS shut off the tractor. Disengage the PTO, and allow all moving parts to stop BEFORE disconnecting or clearing tube, or emptying catcher.

Before leaving the operator's position for any reason, engage the parking brake, disengage the PTO, stop the engine and remove the key.

To reduce fire hazard, keep the engine, tractor and mower free of grass, leaves and excess grease. Do not stop or park tractor over dry leaves, grass or combustible materials.

Operating WITHOUT the Turbo

If you need to mow without the turbo vacuum collector in place (for instance, if the grass is too wet to bag, but must be mowed)—you must remove the turbo blower from the mower deck, and properly position the deflector BEFORE you begin mowing.

WARNING

To operate without the collection system, the blower assembly **MUST** be removed and the deflector **MUST** be in the down position.

The deflector is spring loaded. When removing the blower, hold the deflector up; then allow the deflector to go down into the normal operating position.

Recommended Accessories

When operating on slopes with a rear attachment, use front counterweights. If you will be operating on slopes over 15% (8.5°) two rear wheel weights are recommended in addition to the front counterweights. Never operate on slopes greater than 30% (16.7°).

After Operation

The turbo blower housing and tube should be removed for cleaning. Remove the tube by unlatching the lower tube rubber band from blower housing. When reattaching, make sure there is a snug fit between the mower deck, turbo blower housing, and grass catcher.

Storage

Remove any debris from the turbo blower housing. If you clean the housing, use a mild detergent only (other products may damage tube). If paint has been scratched on metal parts, touch up with paint, or apply a thin film of oil.

To prevent corrosion, store in a dry area, away from moisture.

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Warranty

BRIGGS & STRATTON POWER PRODUCTS GROUP, L.L.C. OWNER WARRANTY POLICY

LIMITED WARRANTY

Briggs & Stratton Power Products Group, LLC will repair and/or replace, free of charge, any part(s) of the equipment that is defective in material or workmanship or both. Briggs & Stratton Corporation will repair and/or replace, free of charge, any part(s) of the Briggs & Stratton engine* (if equipped) that is defective in material or workmanship or both. Transportation charges on product submitted for repair or replacement under this warranty must be borne by purchaser. This warranty is effective for the time periods and subject to the conditions stated below. For warranty service, find the nearest Authorized Service Dealer using our dealer locator at www.BriggsandStratton.com.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one year from purchase or to the extent permitted by law. Liability for incidental or consequential damages are excluded to the extent exclusion is permitted by law.

Some states or countries do not allow limitations on how long an implied warranty lasts, and some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and 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 or country to country.

WARRANTY PERIOD

Item	Consumer Use	Commercial Use:
Equipment	1 Years	N/A

The warranty period begins on the date of purchase by the first retail consumer or commercial end user, and continues for the period of time stated above. "Consumer use" means personal residential household use by a retail consumer. "Commercial use" means all other uses, including use for commercial, income producing or rental purposes. Once product has experienced commercial use, it shall thereafter be considered as commercial use for purposes of this warranty.

No warranty registration is necessary to obtain warranty on Briggs & Stratton products. Save your proof of purchase receipt. If you do not provide proof of the initial purchase date at the time warranty service is requested, the manufacturing date of the product will be used to determine warranty eligibility.

ABOUT YOUR WARRANTY

We welcome warranty repair and apologize to you for being inconvenienced. Warranty service is available only through servicing dealers authorized by Briggs & Stratton or BSPPG, LLC.

Most warranty repairs are handled routinely, but sometimes requests for warranty service may not be appropriate. This warranty only covers defects in materials or workmanship. It does not cover damage caused by improper use or abuse, improper maintenance or repair, normal wear and tear, or stale or unapproved fuel.

Improper Use and Abuse - The proper, intended use of this product is described in the Operator's Manual. Using the product in a way not described in the Operator's Manual or using the product after it has been damaged will void your warranty. Warranty is not allowed if the serial number on the product has been removed or the product has been altered or modified in any way, or if the product has evidence of abuse such as impact damage, or water/chemical corrosion damage.

Improper Maintenance or Repair - This product must be maintained according to the procedures and schedules provided in the Operator's Manual, and serviced or repaired using genuine Briggs & Stratton parts. Damage caused by lack of maintenance or use of non-original parts is not covered by warranty.

Normal Wear - Like all mechanical devices, your unit is subject to wear even when properly maintained. This warranty does not cover repairs when normal use has exhausted the life of a part or the equipment. Maintenance and wear items such as filters, belts, cutting blades, and brake pads (engine brake pads are covered) are not covered by warranty due to wear characteristics alone, unless the cause is due to defects in material or workmanship.

Stale Fuel - In order to function correctly, this product requires fresh fuel that conforms to the criteria specified in the Operator's Manual. Damage caused by stale fuel (carburetor leaks, clogged fuel tubes, sticking valves, etc) is not covered by warranty.

* Applies to Briggs & Stratton engines only. Warranty coverage of non-Briggs & Stratton engines is provided by the engine manufacturer.

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