



Rear Roller Brush

Greensmaster® 3200 Series with Groomer

Model No. 04491

Installation Instructions

Note: Some components may have already been assembled loosely at the factory. Some components may have to be loosened or removed before installation. The right-hand brush drives are shown in all figures.

1. Remove the 2 screws and lock washers from the groomer drive cover (Fig. 1). Also remove the screw with the grease fitting or relief valve, the washer, and the spacer.

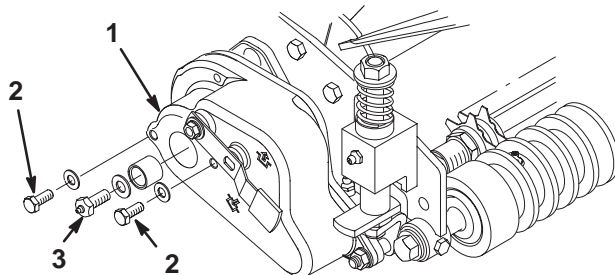


Figure 1

- | | |
|----------------|-------------------------------------------|
| 1. Drive cover | 3. Screw with grease fitting/relief valve |
| 2. Screw | |

2. On the same end of the cutting unit, remove the locknut and flat washer from the carriage bolt securing the height-of-cut bracket to the cutting unit side plate (Fig. 2).
3. Remove grease fitting from end of roller shaft and replace with 90° grease fitting (Fig. 2).

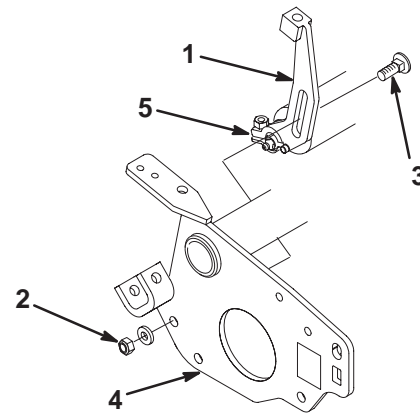


Figure 2

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|----------------------------|----------------------------|
| 1. Height-of-cut bracket | 4. Cutting unit side plate |
| 2. Locknut and flat washer | 5. Grease fitting |
| 3. Carriage bolt | |

4. Thread a hex extension onto the carriage bolt (Fig. 3). Tighten the hex extension securely against the cutting side plate.

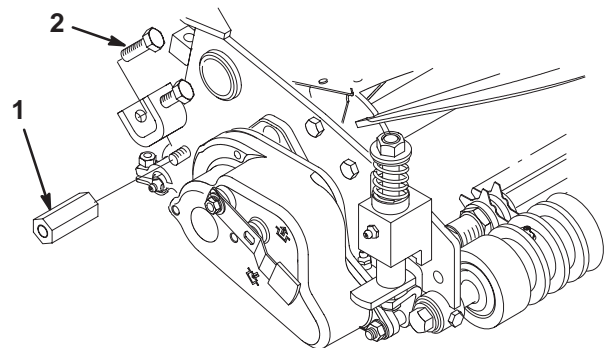


Figure 3

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|-----------------------|-------------------------------|
| 1. Long hex extension | 2. Lower bedbar adjuster bolt |
|-----------------------|-------------------------------|

- Repeat steps 2 and 4 on the opposite end of the cutting unit using to mount the hex extension. Check and adjust the height-of-cut as required.

Note: On cutting unit models 04470, 04471, 04480 and 04481 only, remove the lower bedbar adjuster bolts and install new special bolts reversed as shown in Figure 3. The bedbar may have to be removed to install the new special bolt.

- Remove the plastic belt cover from the brush kit drive assembly (Fig. 4).

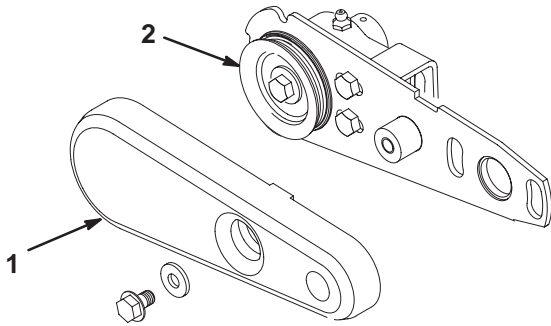


Figure 4

- Belt cover
- Drive assembly

- Insert the lip of the drive assembly pivot plate into the hole in the groomer drive cover. Secure the pivot plate to the groomer drive cover with 2 special shoulder bolts (Fig. 5). Tighten the bolts securely.
- Loosely secure the pivot plate slotted bracket to the hex extension with a hex head screw (M10) and flat washer (Fig. 5).
- Install the small drive pulley and square key to the groomer drive shaft with the screw with the grease fitting or relief valve (previously removed), the external tooth lockwasher, and the flat washer. Tighten it securely (Fig. 5).

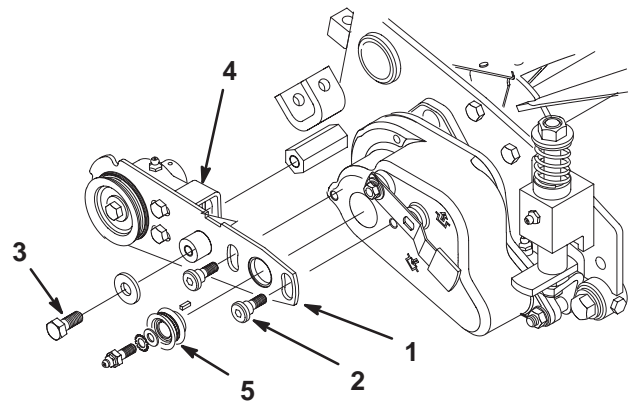


Figure 5

- Pivot plate
- Special shoulder bolt
- Hex head screw, M10
- Pivot plate slotted bracket
- Small drive pulley

- On the other end of the cutting unit, loosely secure the bearing adjustment plate to the hex extension with a hex head screw (M10) and flat washer (Fig. 6). Do not overtighten; the brush must pivot freely.

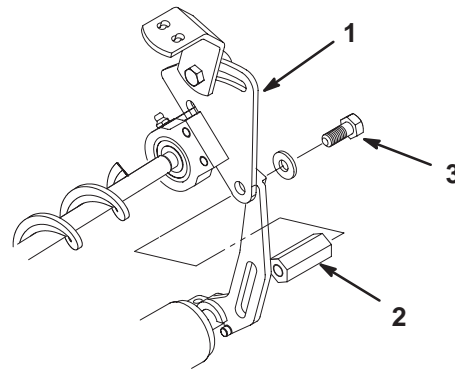


Figure 6

- Bearing adjustment plate
- Hex extension
- Hex head screw, M10

- Secure the support bracket to the underside of the cutting unit tab with 2 hex head screws (M6) and locknuts. Tighten the screws (Fig. 7).

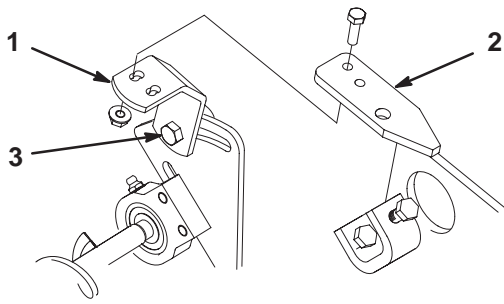


Figure 7

- | | |
|---------------------|----------------------------|
| 1. Support bracket | 3. Capscrew and flange nut |
| 2. Cutting unit tab | |

12. Install the drive belt (Fig. 8) and adjust the belt tension as follows:

- A. Loosen the 2 capscrews securing the brush shaft bearing housing to the pivot plate.
- B. Install the belt onto the large and small pulleys.
- C. Insert a screwdriver between the brush shaft bearing housing and slotted bracket.
- D. Pry the bearing housing rearward and tighten the belt until there is 3/32 in. deflection midway between the pulleys with a force of 1.8 lb. applied at a right angle to the belt.
- E. Tighten the 2 bearing housing mounting screws to lock the adjustment.

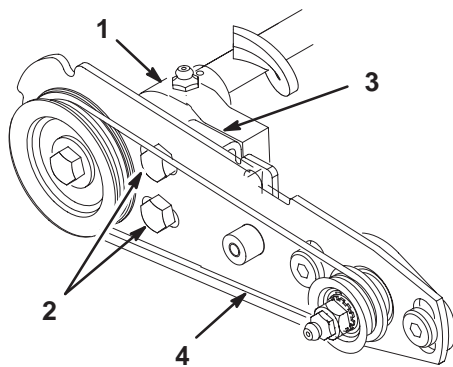


Figure 8

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|------------------------------------|--------------------------------|
| 1. Brush shaft bearing housing | 3. Pivot plate slotted bracket |
| 2. Bearing housing mounting screws | 4. Drive belt |

13. Adjust the axial movement of the brush shaft (Fig. 8) as follows:

- A. Loosen the set screw securing each locking collar to the ends of the brush shaft.
- B. Rotate each locking collar to unlock them from the bearing.

C. On the pulley end of the shaft, pull the shaft inward and rotate the collar forward (in the direction of brush rotation) into the locking position. Use a hammer and punch to ensure that the collar is tight.

D. Tighten the collar set screw to secure the adjustment.

E. Repeat the procedure on the opposite end of the shaft.

14. Pivot the brush assembly onto the roller. The brush should lightly contact the entire length of the roller and should be parallel to the roller.

15. While holding each hex extension with a wrench, tighten each hex head screw to 60 ft.-lb. Tighten the cap screw and flange nut securing the bearing adjustment plate to the support bracket (Fig. 7). Make sure that the brush to roller contact is not disturbed.

16. Lubricate the brush shaft bearing housing and small drive pulley grease fittings with general purpose lithium grease.

17. Install the belt cover to the drive assembly with a screw and flat washer. Tighten the screw securely but do not overtighten as damage to the cover may occur.

18. Repeat steps 1 thru 17 on the 2 remaining left-hand brush drives.

Important Use caution if tipping the cutting unit onto the roller brush. Roller brush misadjustment and/or damage to the brush may occur, resulting in poor performance or a ruined brush. After completion of the cutting unit maintenance, check the brush-to-roller contact and reset it as required.

