



Service Advisory

COMMERCIAL SERIES

CC-684

Models Affected: **S6031-KW** (53A18DU6050).
S7237-KW (53A18DU8050).

Serial Number Range Affected: All 2009 Built Product.

Date: **August 16, 2010**

Subject: **Mandatory Check Of The Steering Housing Assembly Flange Bearings 02003163 and 02004002.**

PURPOSE: Confirm that the **02003163** and **02004002** flange bearings are fully seated with their flanges against the sides of the steering housing assembly and are held from turning in their respective location.

ACTION REQUIRED: The recommended or equivalent shop supplies to complete this repair are available locally. The three (3) items are listed below for reference. These items are not covered by warranty.



FIGURE 1

A report of loose steering is an indication that the flange bearings are turning inside the steering housing assembly. If either flange bearing has been turning in the hole of the steering housing assembly it resides in, and sufficient damage to the integrity of the hole or the flange bearings exists, replace the steering housing assembly and both flange bearings utilizing this advisory for instructions for retaining the flange bearings in the steering housing assembly. If no damage to the steering housing assembly or flange bearings are evident then follow the instructions of this advisory to secure the flange bearings in the steering housing assembly.

Instructions for repair can be found on the back of this Advisory.

Warranty: Normal warranty terms apply. Indicate Service Advisory **CC-684** and **02003163** as the original failed part on the claim. Repair time allowance is 0.5 Hrs.

SERVICE MANAGER	PARTS MANAGER	SALES MANAGER	SERVICE TECH.	SERVICE TECH.

Circulate and Initial

INSTRUCTIONS:

1. Park unit on a flat level surface.
2. Disconnect the negative battery cable from the negative battery terminal. Disconnect the positive battery cable from the positive battery terminal.
3. Remove the two (2) 1/4-20 x .75" hex cap screws and lock washers that secure the steering housing assembly cover in place. See Figure 2.

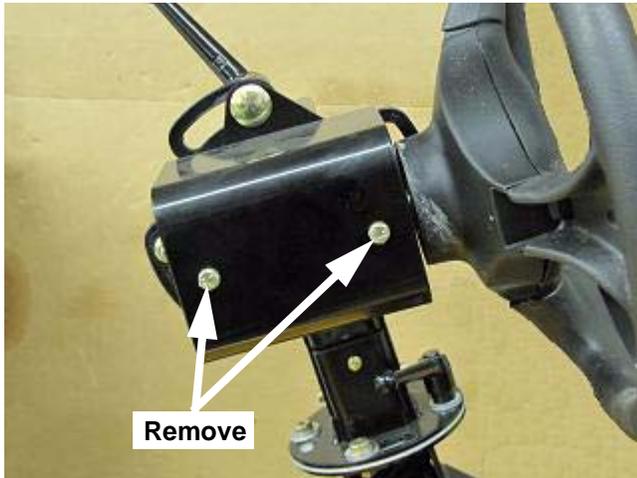


FIGURE 2

4. Remove the cotter pin from the steering shaft. See Figure 3.



FIGURE 3

5. Remove the 3/4" diameter E-clip from the steering shaft. See Figure 4.



FIGURE 4

6. Pull the steering wheel with steering shaft from the **02004002** flange bearing and miter gear. See Figure 5.
NOTE: Do Not allow the miter gear fall.

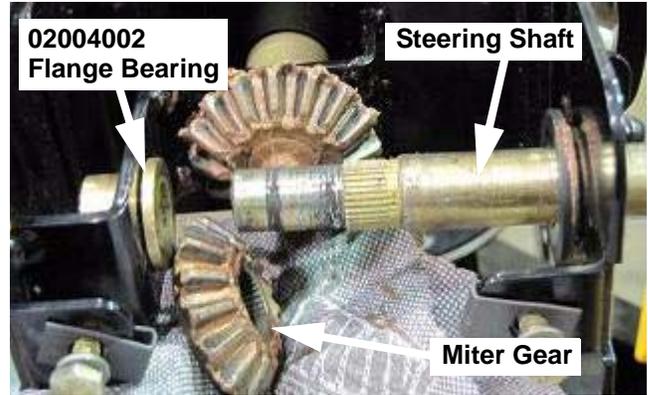


FIGURE 5

7. Pull the steering wheel and shaft from the remaining **02003163** flange bearing and catch the two (2) flat washers located on the steering shaft as it is pulled through the **02003163** flange bearing. See Figure 6.

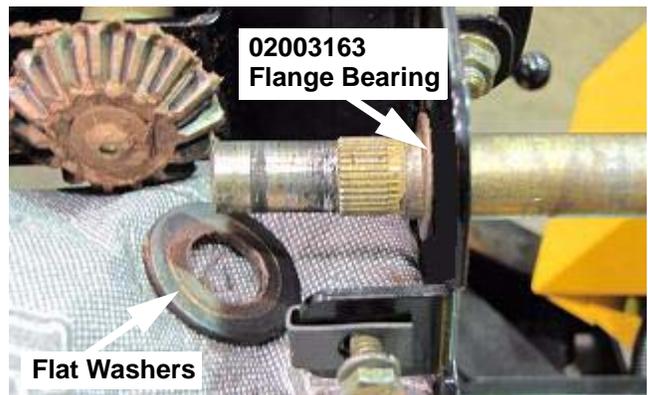


FIGURE 6

8. Check that the steering shaft flange bearings **02003163** and **02004002** are secure in the steering housing assembly, unable to turn or move in or out of their respective location.
9. If there is sufficient damage to the integrity of the hole or the flange bearings, order a new steering housing assembly and flange bearings and continue to follow these instructions for retaining the flange bearings in the steering housing assembly.
10. If the flange bearings are loose and no damage is evident to the steering housing assembly or the flange bearings, apply LOCTITE® #380 instant adhesive to the outer part of the bushings as shown in Figure 7.

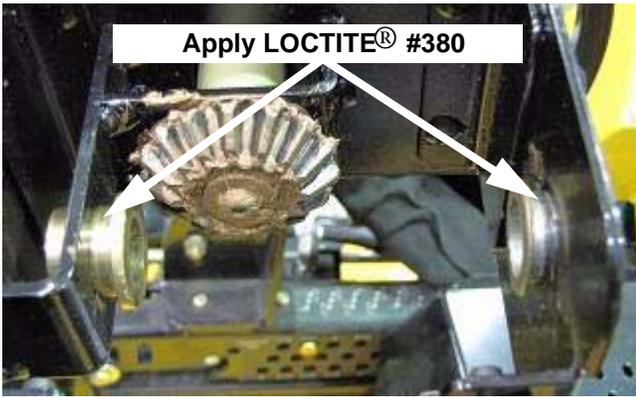


FIGURE 7

11. Press the flange bearings back in place, with the flanges fully seated against the steering housing assembly.

12. Retain the steering valve shaft from turning with a pair of channel lock pliers. Back out the 1/4-20 x .50" capscrew and apply a small amount of LOCTITE® #620 to the threads of the capscrew. See Figure 8.

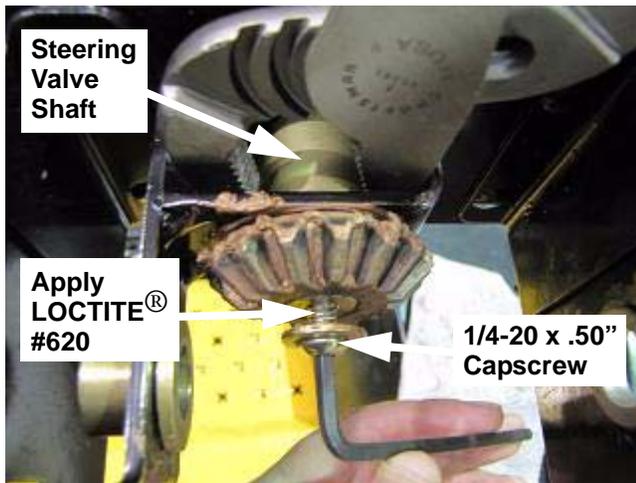


FIGURE 8

13. Install the steering shaft with steering wheel attached, through the 02003163 flange bearing. Install the two (2) flat washers onto the steering shaft. See Figure 9.

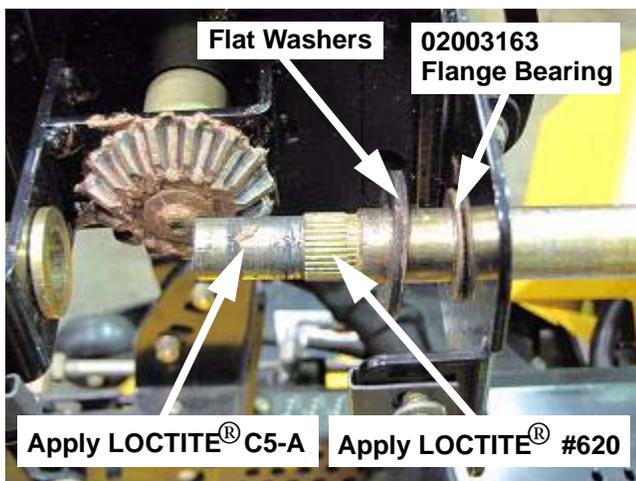


FIGURE 9

14. Apply a small amount of LOCTITE® C5-A (copper) anti-sieze compound to the steering shaft surface called out in Figure 9.

15. Apply a small amount of LOCTITE® #620 retaining compound to the splines of the steering shaft as called out in Figure 9.

16. Position the miter gear in place in front of the 02004002 flange bearing. Push the steering wheel and steering shaft assembly into the miter gear. See Figure 10.

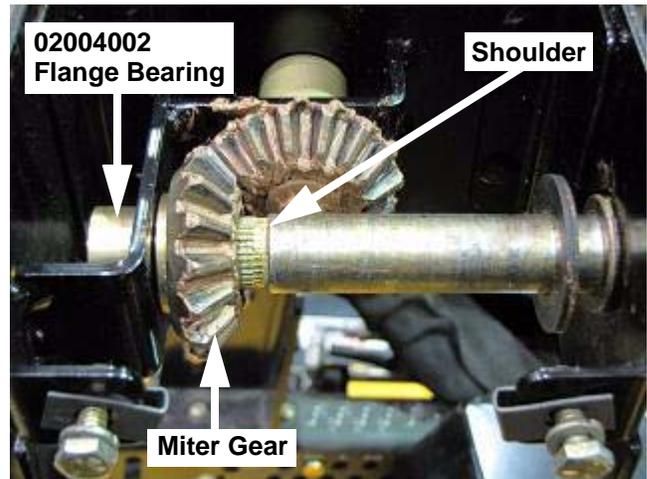


FIGURE 10

17. Apply a small amount of LOCTITE® C5-A on the steering shaft in the area shown in Figure 11.

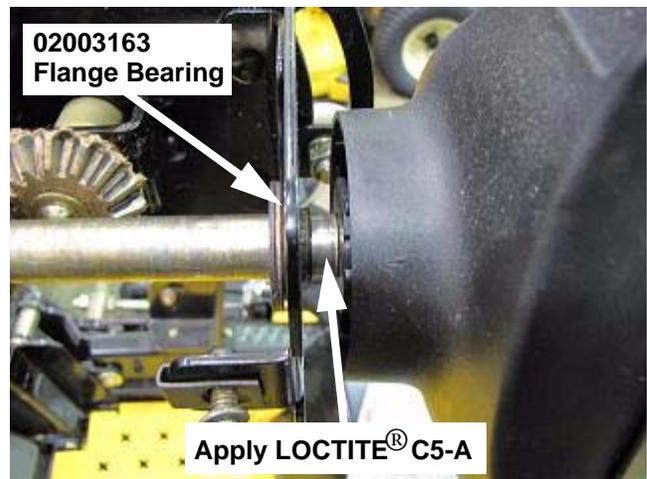


FIGURE 11

18. Push the steering wheel and steering shaft assembly in until the shoulder of the steering shaft (shown in Figure 10), bottoms out against the miter gear.

19. Install the e-ring in the groove of the steering shaft as shown in Figure 12.



FIGURE 12

20. Install the cotter pin back in place in the steering shaft.

21. Apply LOCTITE[®] C5-A (copper) to the to miter gear surfaces as indicated in Figure 13.

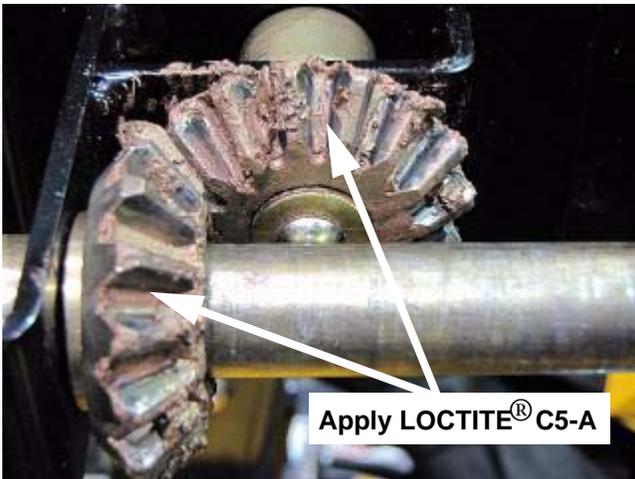


FIGURE 13

22. Install the steering box cover. **NOTE: The small tab side goes to the top as shown in Figure 14.**

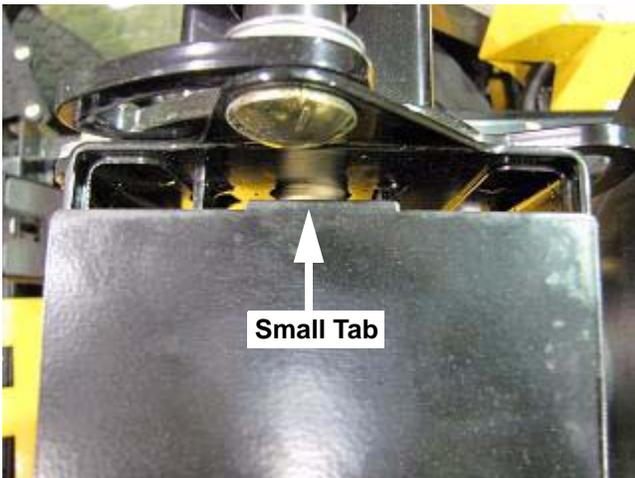


FIGURE 14

23. Install the two (2) 1/4-20 x .75" hex cap screws and lock washers to secure the steering box cover in place.

24. Connect the positive battery cable to the positive battery terminal. Connect the negative battery cable to the negative battery terminal.

25. Start the unit and confirm that all safety features are operating correctly.

THIS AREA LEFT INTENTIONALLY BLANK