



Service Advisory

CC-582

2500 SERIES

Models Affected: GT 2542 (14A-2D2G710). GT 2544 (14A-2E7L710).
GT 2550 (14A-2E7P710). GT 2554 (14A-2A7K710).

Serial Number Range Affected: Units Built November 28, 2006 thru December 16, 2006 (1K286G.... thru 1L166G....).

Date: **July 18, 2007**

Subject: **Segment Gear Assembly 617-04034. Mandatory Inspection of Inventory Units & Fix-As-Fail for Retailed Units.**

PURPOSE: Check and identify the steering Segment Gear Assembly by color. If the steering Segment Gear Assembly is of a yellowish / golden color finish (Yellow Zinc Dichromate) Figure 1, order and install a new **617-04034** Segment Gear Assembly. If the steering Segment Gear Assembly is of a grayish / charcoal finish (Oil Phosphate) Figure 2, the steering Segment Gear Assembly is ok and needs no further attention.

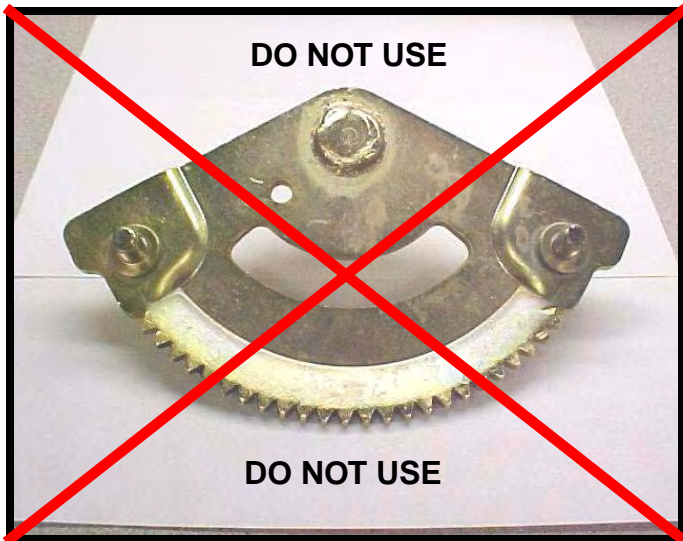


FIGURE 1



FIGURE 2

ACTION REQUIRED:

1. Park unit on a flat level surface.
2. Look and identify the color of the steering Segment Gear Assembly. If the steering Segment Gear Assembly is grayish / charcoal in color no further attention is needed pertaining to this Service Advisory and the unit can be repaired as needed or returned to service. If the steering Segment Gear Assembly is yellowish / golden in color proceed to step 3.
3. Disconnect the negative battery cable from the negative battery terminal. Disconnect the positive battery cable from the positive battery terminal.
4. Remove the deck for easier access to the steering Segment Gear Assembly. Refer to the Operators manual for deck removal instructions.

5. Remove the Hex Flange Lock Nuts that secure the Drag Links to the Segment Gear Assembly.
6. Turn the steering wheel all the way to the right. Remove the Flange Lock Nut that secures the Steering Pinion Gear to the Steering Shaft.
7. Turn the steering wheel left & right while pulling upward with slight tension. This will allow the Steering Shaft to pullout of the Steering Pinion Gear.
8. Locate the Steering Pinion Gear & Flat Washer that was located above the gear. Inspect for any damage and set off to the side.
9. Remove the snap ring holding the steering Segment Gear Assembly into the Steering Housing Assembly.

Remove the steering Segment Gear Assembly and discard.

10. Apply a light coating of grease to the pivot pin of the new (617-04034) Segment Gear Assembly. Install the new Segment Gear Assembly into the Steering Housing Assembly from where the old Segment Gear Assembly was removed. Secure with the Snap Ring removed in step 9. **NOTE:** Be-sure to install the sharp side of the snap ring up.

11. Insert the steering shaft all the way down till it bottoms out.

12. Place the Flat Washer on the Steering Shaft. Placing grease on the back of the washer will help hold it in place. See Figure 3.

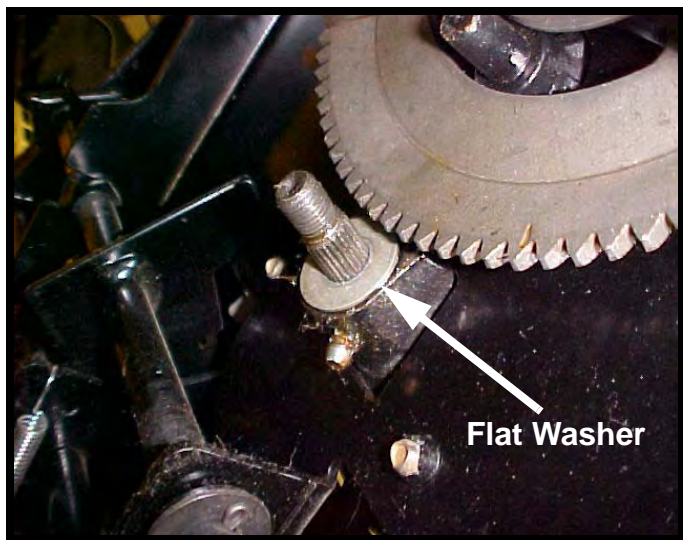


FIGURE 3

13. Install the Steering Gear on the Steering Shaft. Rotate the Segment Gear Assembly to align the teeth of the Segment Gear Assembly and the Steering Pinion Gear.

14. Install the flange Lock Nut that was removed in step 6, to the Steering Shaft. See Figure 4. Torque the Flange Lock Nut to 450 to 600 in lbs. (37.5 to 50 ft. lbs.).

15. Install the left hand Drag Link to the Segment Gear Assembly. **NOTE:** Check the condition of the Plastic Bushing (741-0475) in the Drag Link for damage, replace if needed.

Warranty: Normal warranty terms apply. Indicate Service Advisory **CC-582** and **617-04034** as the original failed part on the claim. Repair time allowance is 0.5 Hrs.

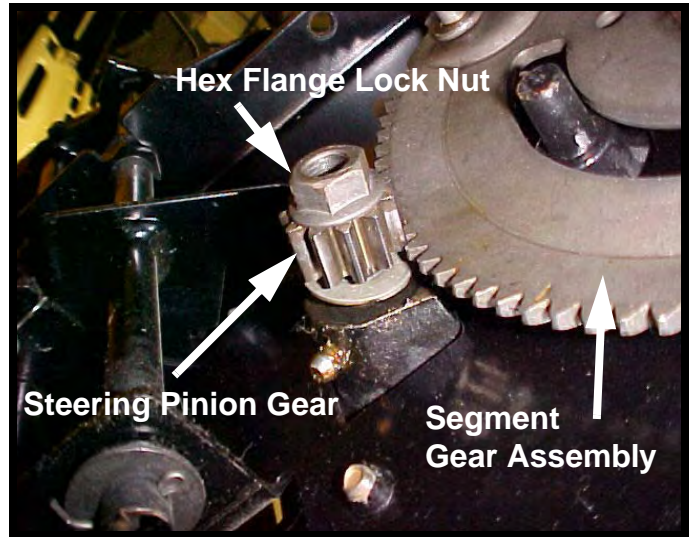


FIGURE 4

16. Torque the Hex Flange Lock Nut to 130 to 200 in. lbs. **NOTE:** Do Not over-torque.

17. Repeat steps 15 & 16 for the right hand Drag Link then proceed to step 18.

18. Set the front tires facing forward in a straight line. Check the position of the Steering Wheel, adjust by removing the Steering Wheel and align to the center position.

19. Check the toe-in specs. Adjust as needed with the Ball joints.

20. Apply grease to the Steering Housing Assembly at the two grease Fittings.

21. Check operation of the Steering all the way to the left & the right.

22. If the deck was removed in step 4, reinstall at this time. Refer to the Operators Manual for deck installation instructions.

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

24. Start and check operation of all safety switches. Check steering operation.

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

Circulate and Initial