



Service Advisory

CC-515

SERIES 2000/2500

Models Affected: GT 2542 (14A-2D2G710), GT 2544 (14A-2C7L710)
GT 2550 (14A-2E7P710), GT 2554 (14A-2A7K710)

Serial Number Range Affected: 1L055G Through 1L145G (December 5, 2005 Through December 14, 2005).
1A026G Through 1B216G (January 2, 2006 Through February 21, 2006).

NOTE: Units built 1L155G Through 1L235G (December 15, 2005 Through December 23, 2005) were made with a solid steel steering housing. These units do not require any rework.

Date: March 22, 2006

Subject: **Install grease fitting to lubricate the steering shaft in the steering housing**

PURPOSE: Allow easier access to the grease fitting to lubricate the steering shaft in the cast iron steering housing and allow grease to penetrate the lower portion of the shaft instead of the upper portion.

PARTS REQUIRED FOR REWORK:

- (1) 737-3000 Lube Fitting, 3/16 Drive
- (1) 777S32728 Label, Access Panel

6. Remove the steering shaft flange lock nut from the bottom of the steering shaft. See FIGURE 2.

ACTION REQUIRED:

1. Place tractor on a flat surface and set the parking brake.
2. Disconnect the negative battery cable from the negative battery terminal.
3. Remove the deck and set off to the side out of the way.
4. If a lift is not available chock the rear wheels and jack the front of the tractor up to an appropriate height for repair. Place jack stands under the front pivot axle on the left and right sides.
5. Remove the steering housing access panel on the left side of the tractor located behind the engine. Remove the plastic wing nut and set the panel off to the side. See FIGURE 1.



FIGURE 2

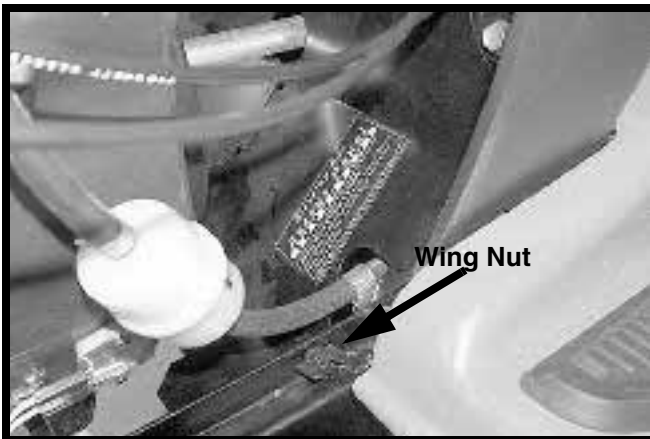


FIGURE 1

7. Turn the steering wheel left and right this should allow the steering pinion gear to drop off the steering shaft.

8. Grab the steering wheel and while turning left and right pull the assembly up with slight pressure.

WARNING: Once the steering shaft exits the bore of the steering housing the shaft will move freely. Apply just enough pressure to avoid injury. The flat washer that is positioned above the steering pinion gear will drop off at this time.

9. Lift the steering wheel and shaft assembly far enough above the steering housing to gain access to polish the lower end of the steering shaft.

10. With a piece of emory cloth polish the lower end of the steering shaft directly above the splined portion. See FIGURE 3. Polish as even as possible while turning the shaft to remove any high spots or burs.

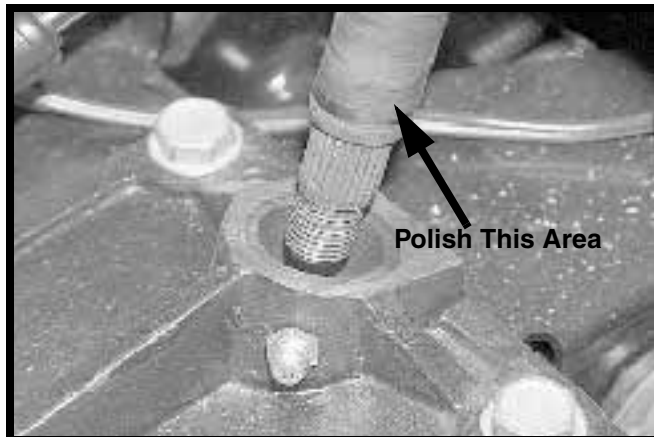


FIGURE 3

11. Use a center punch to mark the location to drill the hole for the 737-3000 lube fitting. See FIGURE 4.

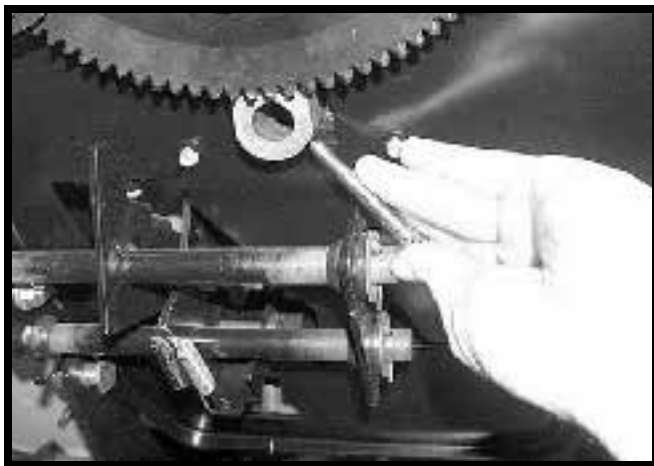


FIGURE 4

12. Using a 3/8" drill. Drill a 3/16" hole in the position shown in FIGURE 5 of the steering housing. Try to drill as close to 90 degrees to the center of the bore line as possible. Placement of the hole for ease of greasing with a grease gun should be taken into consideration.

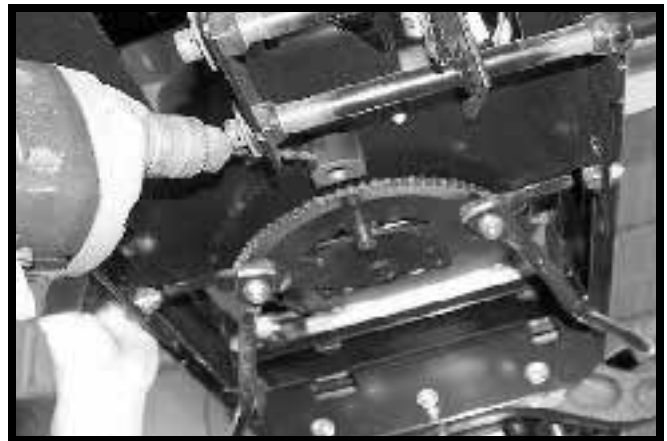


FIGURE 5

13. Clean up any burs from the drilling process on the inside of the bore and the out side of the steering housing using emory cloth or a round file. Clean up any filling grit within the bore with a aerosol carb cleaner and a shop towel.

14. Install a 737-3000 3/16 drive in lube fitting into the previously drilled hole.

15. Install the steering shaft back into the steering housing. **NOTE:** If the steering shaft installs into the bore of the steering housing with no resistance proceed to step 16. If the steering shaft is still at too tight of a tolerance, repolish the shaft and bore.

16. Apply some grease to the lower end of the steering shaft in the area that was polished in step 10.

17. Before installing the steering shaft completely through the steering housing, the flat washer that was removed in step 7 needs to be installed at this time. Allow 1/2" to 3/4" of the steering shaft to protrude out of the bottom of the steering housing. Install the flat washer onto the steering shaft while holding the flat washer in place against the bottom of the housing. Push the steering wheel and shaft all the way down until the shaft bottoms out on the top side of the steering housing. The segment gear should retain the flat washer from falling off the shaft.

18 Align the steering wheel to the center position and install the steering pinion gear and flange lock nut. Turning the steering wheel slightly left and right will allow the pinion gear to align with the segment gear. Tighten the flange lock nut to 100 in. lbs.

19. With a grease gun apply grease to the new lube fitting until grease exists between the washer and steering housing.

20. Raise the tractor and remove jack stands. Remove wheel chocks.

21. Check steering wheel alignment. Adjust toe-in if needed.

22. Reconnect the negative battery cable back to the negative terminal on the battery.

23. Grease the segment pivot pin on the top front portion of the steering housing. Location shown in FIGURE 6.

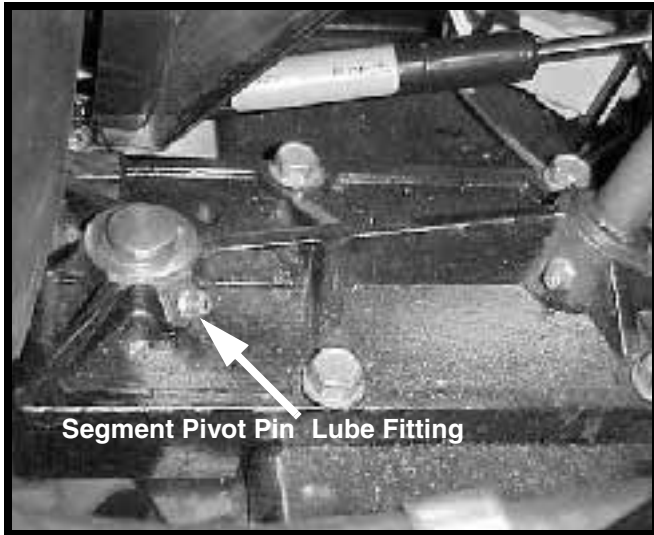


FIGURE 6

24. Remove the existing label from the steering access panel. Install the new label 777S32728 onto the access panel in the location where the existing label was removed from. The new label will call out the lower steering box fitting installed in the rework.

25. Reinstall the steering box access plate and secure in place with plastic wing nut and carriage bolt.

26. Reinstall deck, follow directions in operators manual for deck installation.

27. Test drive to evaluate the steering for ease of operation.

28. FIGURE 7 shows the installed lube fitting.

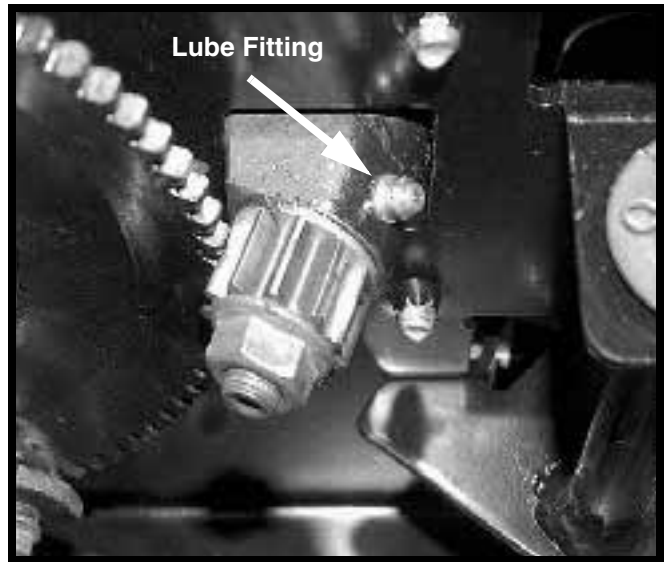


FIGURE 7

Warranty: Normal warranty terms apply. Indicate Service Advisory **CC-515** and **719-04200** as the original failed part on the claim. Repair time allowance is 0.5 Hrs.

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