

Removal and Replacement of the Hydraulic Steering Pump

Prior to removing the steering pump, it is necessary to remove the fender assembly.

CAUTION: Slowly remove the hydraulic lines from the hydraulic steering pump. Test for pressure in the lines before removal.

1. Place an oil pan directly under the hydraulic steering pump. This will catch the hydraulic fluid that will be drained from the lines and the pump.
2. Remove all four of the hex head tapp screws from the drive shaft to the pump adapter using a 3/8 socket.

NOTE: Removal of the drive shaft from the pump adapter is necessary to allow access to the four hydraulic steering pump mounting bolts.

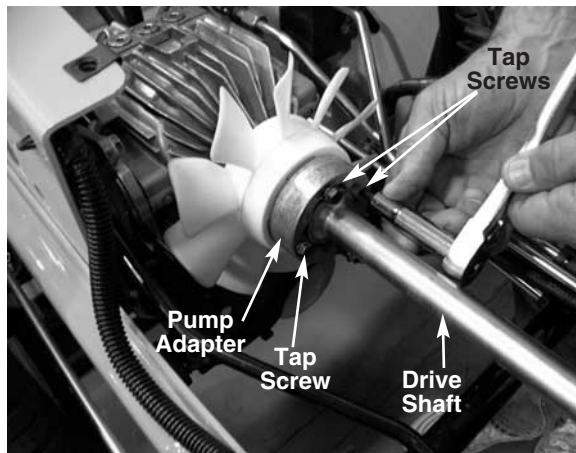


FIGURE 1.

3. Remove both hex cap screws and lock nuts from the tilt wheel coupling using a 7/16 wrench and a 7/16 socket. See figure 2.

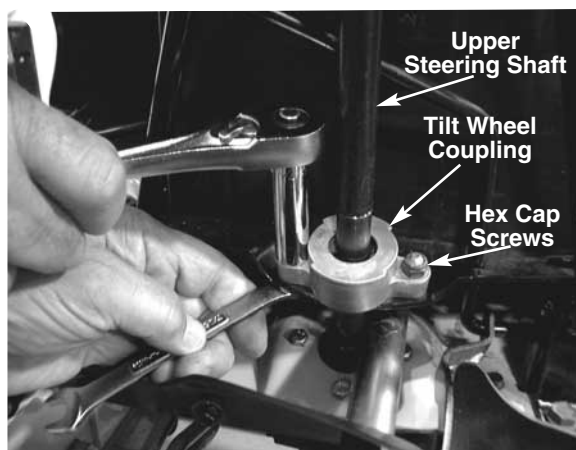


FIGURE 2.

4. Raise the upper steering shaft. See figure 3.
5. Remove the lower steering shaft from the hydraulic steering pump. See figure 3.

NOTE: The lower steering shaft is splined on each end and requires lubrication prior to reassembly.

6. Slide the drive shaft towards the left frame rail.

NOTE: Be careful not to dislodge the blue barrels on each end of the drive shaft.

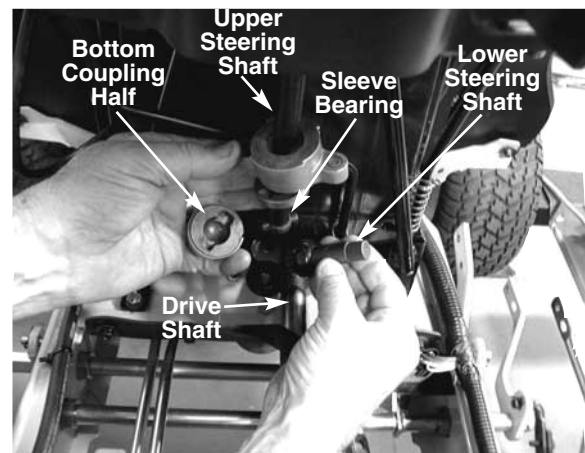


FIGURE 3.

7. Write down the exact locations of all the hydraulic tubes. See figure 4.
8. Remove both hex cap screws from the steering pump port plate using a 13mm wrench.
9. Remove the port plate from the hydraulic lines.

NOTE: Pivot the top edge of the port plate backward (towards the left frame rail), bringing the plate to horizontal. Push the port plate up and rotate the port plate counter-clockwise 90 degrees using the main pressure line as the pivot point. Slide the port plate towards the left frame rail until the port plate clears the hydraulic lines.

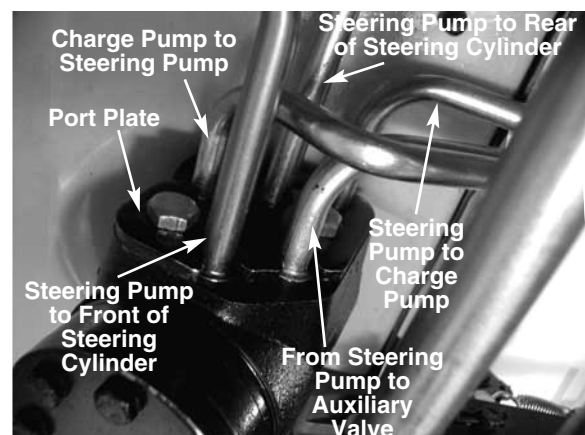


FIGURE 4.

Cub Cadet 3000

10. Remove the hydraulic tubes from the hydraulic steering pump.

NOTE: If the hydraulic tubes do not want to come out, use a small mallet and tap them out of the ports. Be careful not to damage the tubes.

11. Inspect the “O” rings on the connectors for damage. If damaged, replace.

NOTE: Place a small amount of grease on the “O” rings and cover the connector surface completely for reinstallation.

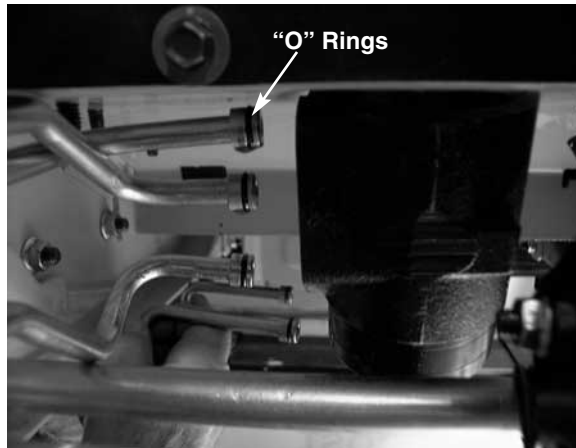


FIGURE 5.

12. Support the hydraulic steering pump from below. See figure 6.
13. Remove the four hex cap screws securing the hydraulic steering pump to the frame using a 10mm wrench. See figure 6.

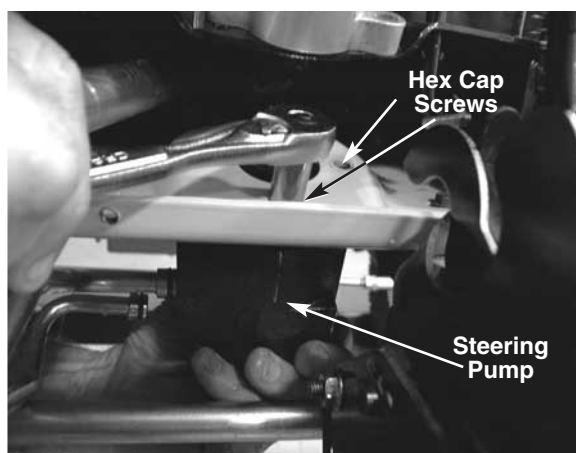


FIGURE 6.

14. Remove the hydraulic steering pump from the tractor.

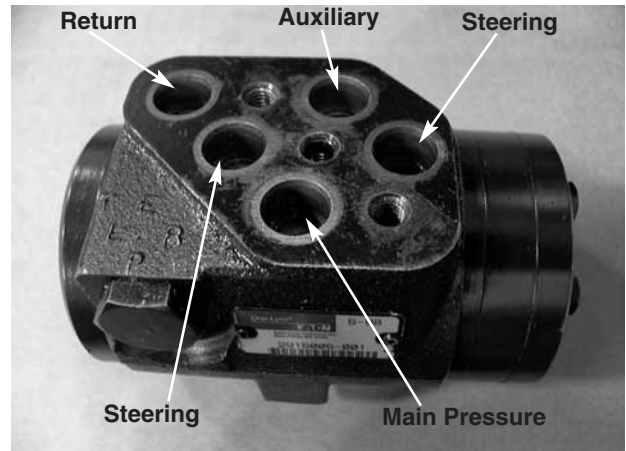


FIGURE 7.

Refer to the 1998 Cub Cadet Technical Update Seminar manual for inspection and repair of the Char-Lynn 2 series Steering Control in Section 17.

REASSEMBLE THE HYDRAULIC STEERING PUMP IN THE REVERSE ORDER.