

Removal and Replacement of the Pump Adapter

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

1. Remove the side panels and disconnect the spark plug wires.
2. Remove all four of the hex head tapp screws that connect the drive shaft to the pump adapter using a 3/8 socket. See figure 1.

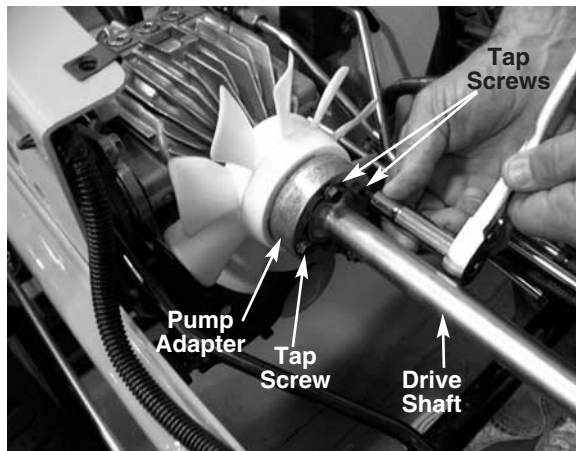


FIGURE 1.

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.

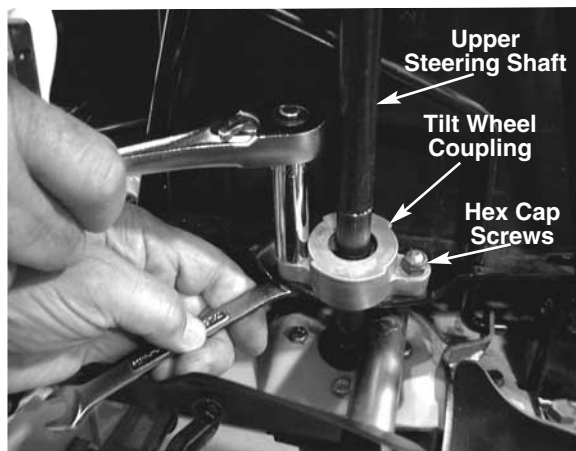


FIGURE 2.

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

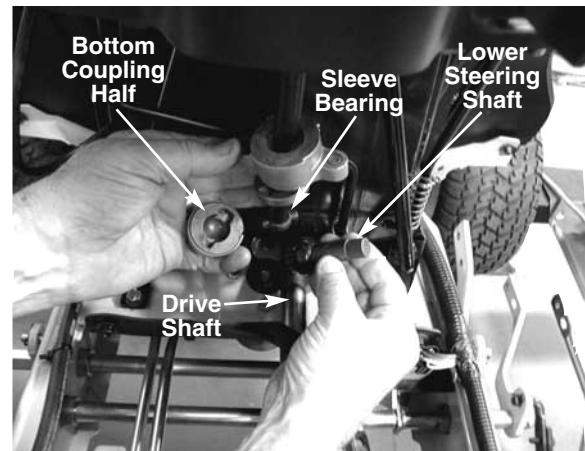


FIGURE 3.

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.

7. Remove the fan from the pump adapter and set it aside.

NOTE: There may be a spacer on the coupler. If so, set it aside.

8. Loosen the nut securing the pump adapter using a 9/16 socket. See figure 4.

NOTE: Channel locks may be needed to hold the pump adapter in place while breaking the pump adapter nut free.



FIGURE 4.

Cub Cadet 3000

9. Finger loosen the pump adapter nut until it is flush with the end of the hydro input shaft.
10. Place a 13/16 socket against the nut with the opened end of the socket facing away from the nut. See figure 6.
11. Place the new pump adapter, cupped side in, over the opened end of the 13/16 socket. See figure 5.
12. Finger tighten two of the drive shaft hex screws across from one another.
13. Using a 3/8 socket, tighten the hex screws equally a quarter of a turn at a time until the old hub breaks free. See figure 5.

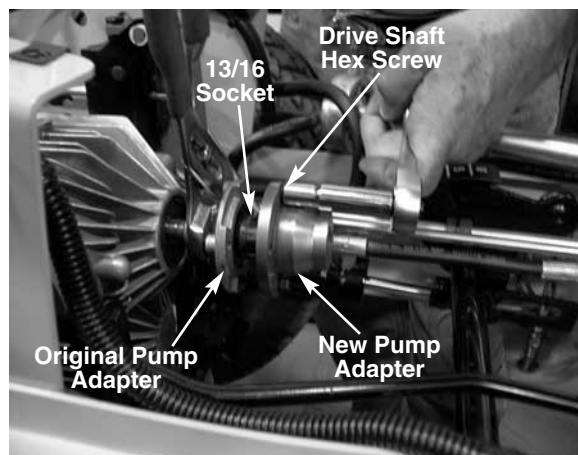


FIGURE 5.

14. Remove the hex screws and new hub. See figure 5.
15. Remove the hex nut, bell-washer, old pump adapter, and key from the input shaft.

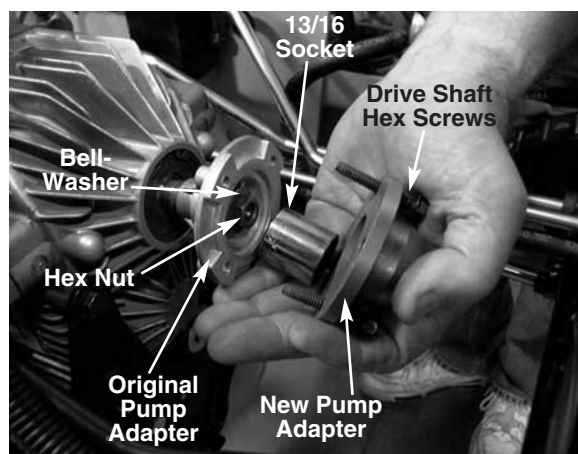


FIGURE 6.

INSTALLATION OF THE NEW PUMP ADAPTER

1. Clean the hydrostatic input shaft of any debris. See figure 7.
2. Apply a light coat of loctite 803 to the taper of the input shaft. See figure 7.
3. Place the new fan over the cone of the new pump adapter.
4. Push the new pump adapter and fan onto the hydro input shaft.

NOTE: The fan will be on the inside of the pump adapter.

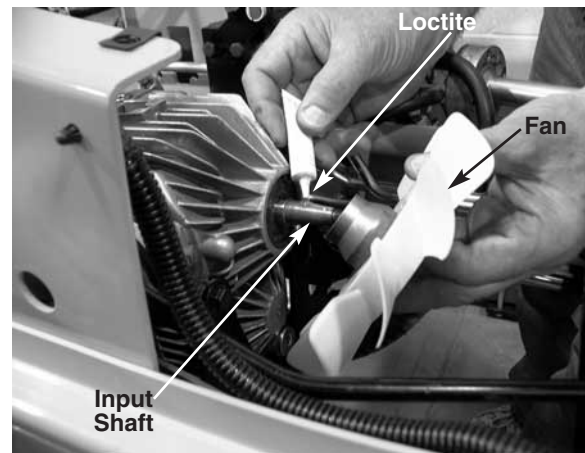


FIGURE 7.

5. Install the new bell washer and locknut.

NOTE: Hold the new pump adapter in place with a drift punch and torque the lock nut to 20 ft. lbs. See figure 8.

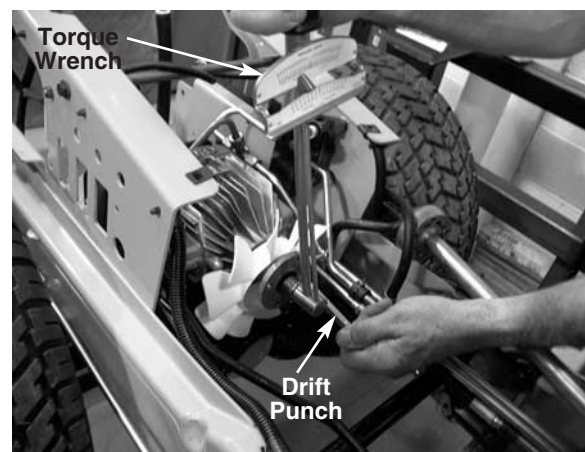


FIGURE 8.

6. Line up the drive shaft with the new pump adapter.

NOTE: If there is more than an 1/8" gap between the drive shaft and pump adapter place the spacer in between the the drive shaft and the pump adapter. Do not force the spacer in if it does not fit.

7. Install the new bolts through the drive shaft, pump adapter, and the fan.
8. Finger tighten the shoulder nuts with the shoulder facing the fan.

NOTE: The shoulder on the nuts fit into the fan holes. See figure 9.

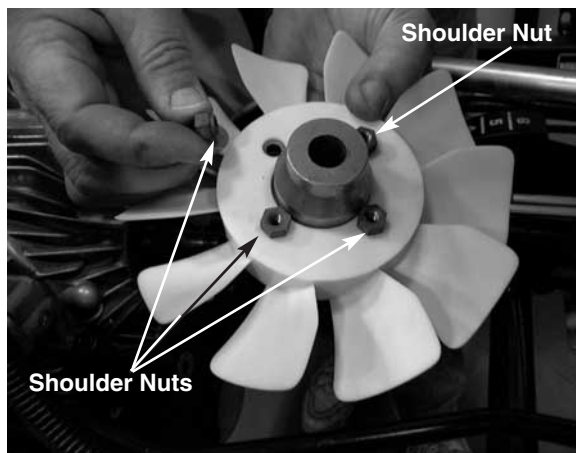


FIGURE 9.

9. Tighten the hex bolts and shoulder nuts securing the pump adapter assembly, using a 7/16 wrench and a 7/16 socket. See figure 10.

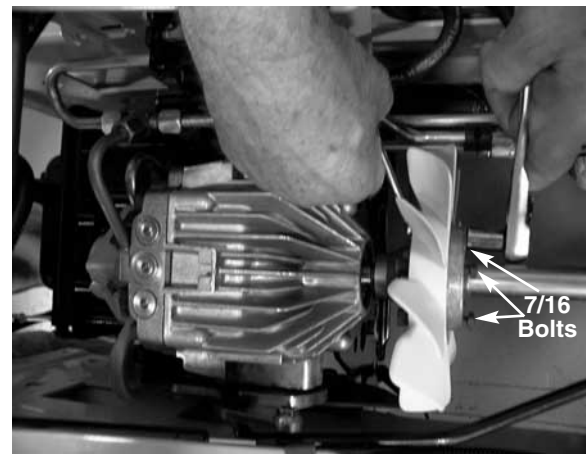


FIGURE 10.

REINSTALL THE FENDER ASSEMBLY.