

## BDU-21L-500 Auxiliary Pressure Test

Prior to performing this test, it is necessary to remove the deck and fender assemblies.

1. Remove the hex cap screw securing the double valve clamp to the charge pump using an 11mm swivel socket. See figure 1.
2. Remove the hydraulic pressure tube end from the charge pump.

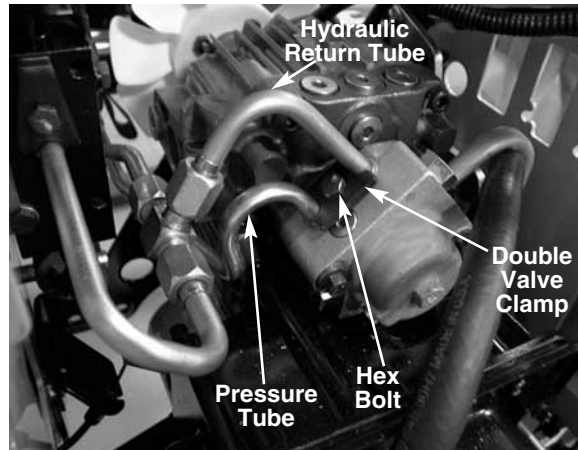


FIGURE 1.

3. Remove both of the hex cap screws from the power steering pump port plate using a 13mm wrench. See figure 2.
4. Remove the hydraulic pressure tube end from the hydraulic steering pump. Charge pump to steering pump. See figure 2.

**NOTE:** Be careful not to damage the “O” rings. If damaged, replace.

5. Remove the hydraulic pressure tube from the unit.

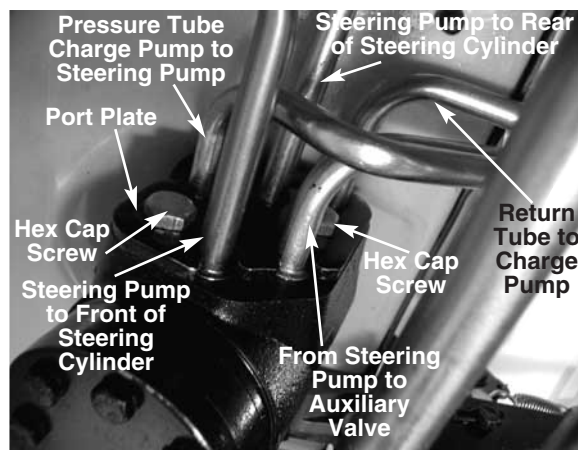


FIGURE 2.

6. Install the pressure test kit into the unit with the pressure gauge standing straight up. See figure 3 and 4.
7. Reinstall the double valve clamp to the charge pump. See figure 1.
8. Reinstall the power steering pump port plate. See figure 2.
9. Fasten all hardware securely.

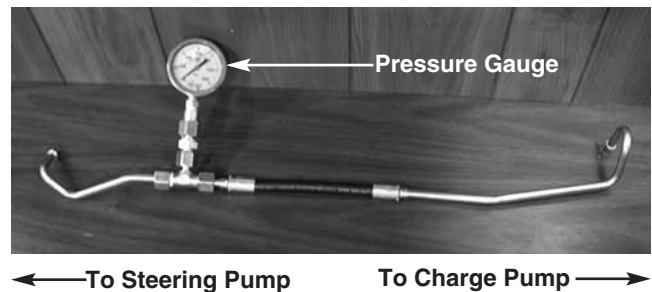


FIGURE 3.

10. Start the unit and allow the hydraulic fluid to circulate at idle.
11. Slowly increase the throttle to full.
12. Slowly decrease the throttle to idle. Record the hydro reading at the pressure gauge. See figure 4.

**NOTE:** The pressure will be very low if shown at all on the gauge.



FIGURE 4.

## Cub Cadet 3000

13. Increase the throttle to full. Record the hydro reading at the pressure gauge. The reading should be between 200 PSI and 650 PSI. See figure 5.

**NOTE:** This system should not read higher than 650 PSI. The relief valve is set to 650 PSI in the auxiliary manifold.

If the pressure readings are not meeting the specifications, the charge pump is faulty.

If the pressure readings are meeting specifications, the charge pump is not faulty and the mechanical system must be checked.



FIGURE 5.

14. Remain at full throttle and max out the lift valve. There should be a **PEAK** pressure of 1100-1200 PSI. See figure 6.

**NOTE:** Only hold the lift valve for a short amount of time. Record the reading and release the lift valve lever as quick as possible.

**IMPORTANT:** System pressure will increase with the actuation of the power steering and/or deck lift.



FIGURE 6.