

TECH TIPS

Service Call:

Adjusting the Sauer Danfoss hydraulic pump

Tools Needed:

4mm allen wrench
6mm allen wrench
7/16 wrench
0 - 3500 psi pressure gauge

Model:

644, 842, & 844



Tech Tips Safety Rules



Danger

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury. Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this tech tip is a supplement to the service manual. Consult the appropriate service manual of your machine for safety rules and hazards.

Step 1

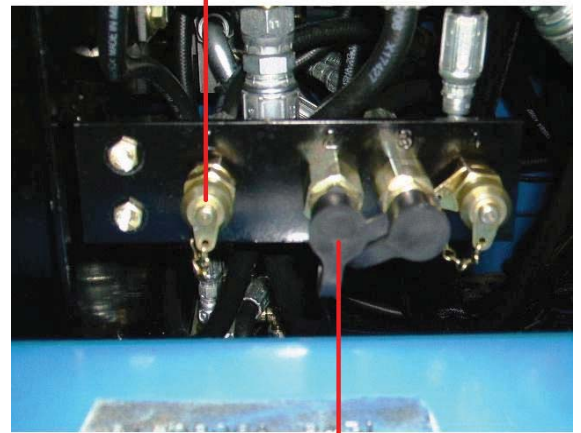
SETTING THE STANDBY SYSTEM PRESSURE

Hydraulic test ports are located at the right rear corner of the unit, removal of the side screens may be necessary to access the test ports (7/16 wrench).

Connect a 0 -- 3500 psi pressure gauge to test port #2, the standby pressure test port (see picture on right).

With the unit on level ground and the parking brake set, start the machine and let it idle.

Main system pressure test port
(test port #1)



Standby pressure test port
(steering test port / test port #2)

Step 2

Note: You will need an assistant to complete this step.

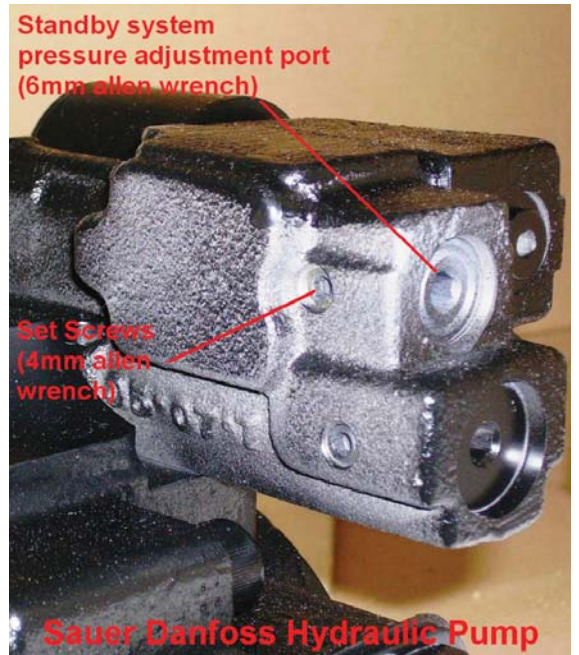
Locate the Sauer Danfoss hydraulic pump (pictured on right).

Loosen the set screw on the side of the standby system pressure adjuster port (4 mm allen wrench).

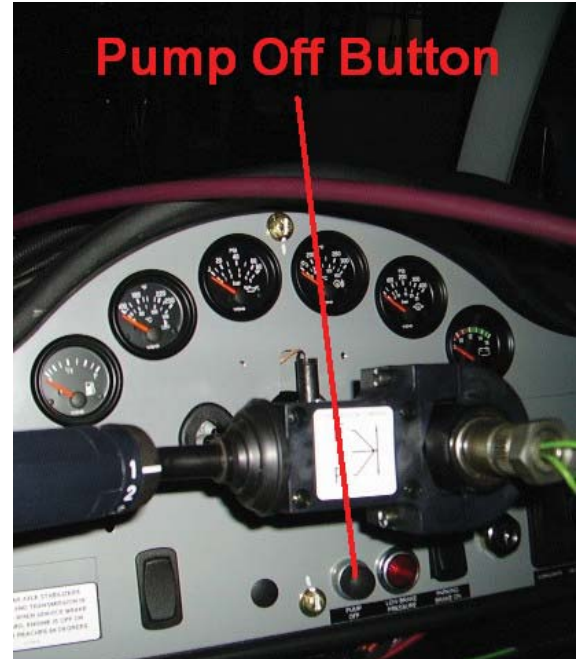
Have an assistant push and hold the pump off button on the dash (see picture on the following page).

Turn the allen port adjuster (6mm allen wrench) clockwise to increase, counter-clockwise to decrease until the pressure on the gauge reads 250psi.

Tighten the set screw on the side of the adjuster (4mm allen wrench) to 5 - 10 ft lbs, release the pump off button, shut the machine down, and disconnect the pressure gauge.



Step 2



Step 3

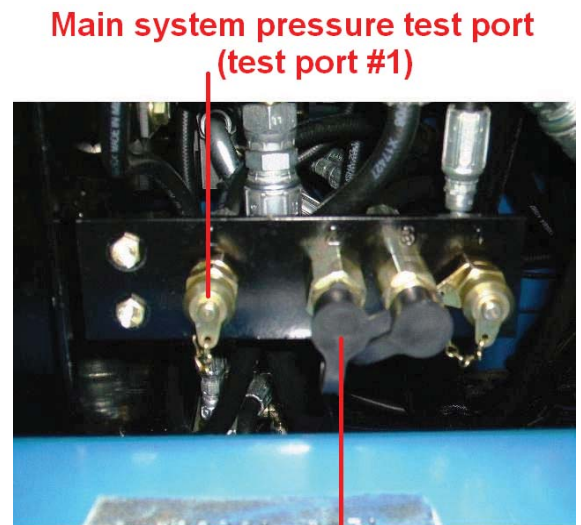
SETTING THE MAIN SYSTEM PRESSURE

Hydraulic test ports are located at the right rear corner of the unit, removal of the side screens may be necessary to access the test ports (7/16 wrench).

Connect a 0 – 3500 psi pressure gauge to test port #1.

Note: All 644, 842, and 844 units have screw on test ports.

With the unit on level ground and the parking brake set, start the machine and let it idle.



Step 4

Locate the Sauer Danfoss hydraulic pump (pictured on right).

Loosen the set screw on the side of the adjuster (4mm allen wrench) and turn the allen port adjuster (6mm allen wrench) clockwise to increase, counter-clockwise to decrease until the main system pressure reads 3000 psi.

Note: Apply and release the service brake pedal a couple times to equal out the pressure on test port #1.

Tighten set screw on the side of the adjuster (4mm allen wrench) to 5 - 10 ft lbs, shut the machine down, and remove the pressure gauge.

Note: If the pressure does not adjust properly, contact the Service Department at 1-866-684-1457.

