

# TECH TIPS

Service Call:

**Sauer Danfoss pump null adjustment.**

Tools Needed:

9/16 Wrench  
5/32 Allen or T Handle

Model:

**All equipped**



## 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

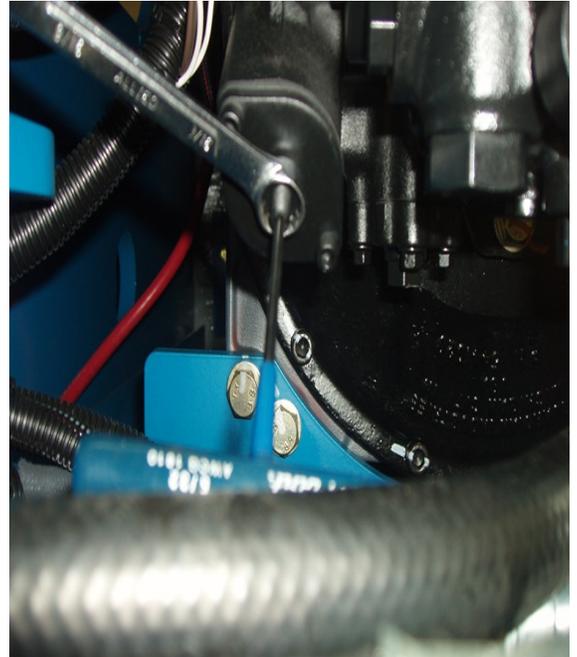
Move the machine to a flat level surface. Mark a twenty foot section on the ground. Keep the boom as low to the ground as possible but extended out approximately three feet. This will put the machine in the elevated drive speed mode with easy access to the platform for testing.

## Step 2

The machine will now drive one foot per second. In this example twenty feet in twenty seconds.  
Drive the machine forward and time how long it takes to go twenty feet. Document your time.  
Drive the machine reverse and time how long it takes to go twenty feet. Document your time.

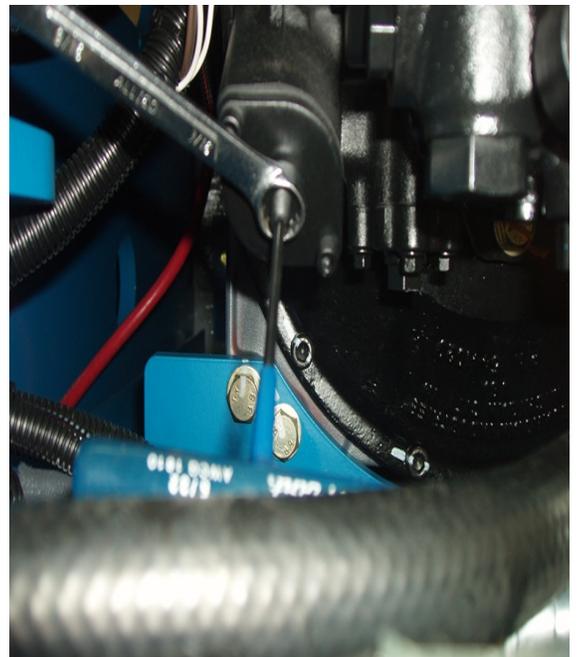
## Step 3

If the machine is slower forward than reverse adjustment to the Null are made by holding the Allen in the center while loosening the jam nut. Turn the Allen clockwise in slight increments to increase the forward drive speed. Hold the Allen and lock the jam nut down. Test the drive speed.



## Step 4

If the machine is slower in reverse the adjustment will be slight increments counter clockwise to increase reverse drive speed. Test after each adjustment. Continue with adjustments and drive testing until the machine drives the same speed forward and reverse. Usually within one second of each other is acceptable.



## Step 5

The Null adjustment on Sauer Danfoss pumps is typically located on the left hand side of the pump as you are facing it. On some older Z45 models it will be located on top.

## Step 6

**NOTE:**

On machines equipped with HPL (horse power limiter boards) Make sure engine rpm's and HPL boards are adjusted properly before attempting the Null adjustment. See HPL adjustment in Tech Tips.

If there is further diagnosis needed contact the Genie Industries Service Department at 1-800-536-1800