

# Troubleshooting

## Slack Adjuster Function Test

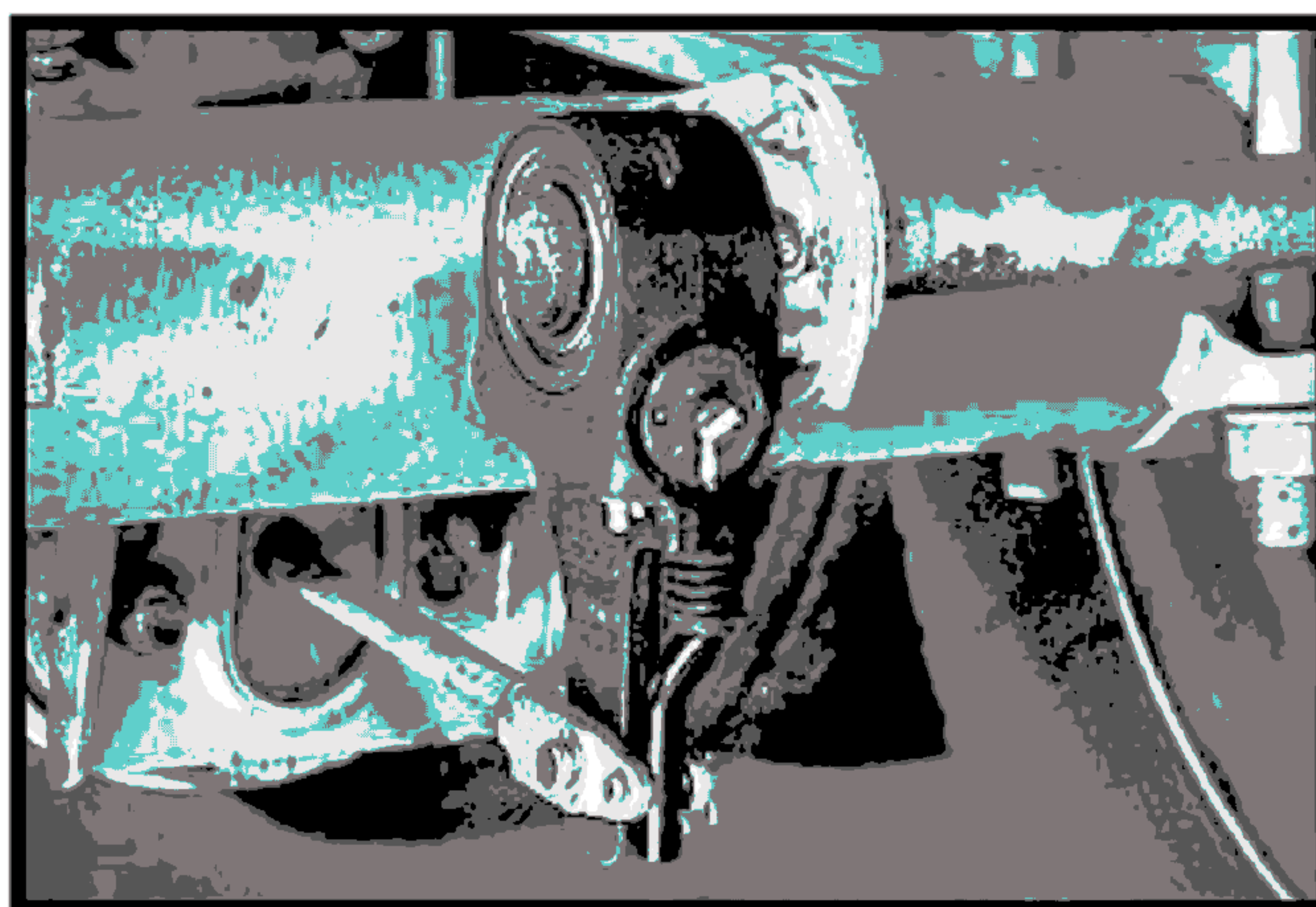
If the maximum stroke, with a 90 psi brake application is less than the distance shown in the chart on the left, the Gunite automatic slack adjuster is functioning properly.

1. The Gunite automatic slack adjuster should not require manual readjustment. If the maximum chamber stroke is within the range for the size chamber used (See fig. 1), the slack adjuster should not be manually readjusted.

If the chamber stroke exceeds the limit, measure the free stroke. If the free stroke is good, but the applied stroke is too long, there is a problem with the foundation brake. Check the foundation brake for missing or worn components, cracked brake drums, or improper lining to drum contact.

If the free stroke is **greater** than the recommended distance (3/8" - 5/8"), a function test of the automatic slack adjuster should be performed. To

test the function of the automatic slack adjuster, place a 7/16" box wrench on the hex extension and rotate it 3/4 of a turn counterclockwise. A ratcheting sound will be heard. Mark the 7/16" hex extension with chalk and apply the brakes several times and watch for the hex to rotate clockwise (See fig. 4). The hex extension must rotate clockwise. The adjustment is intentionally made in small increments so it will take several cycles to bring the adjuster within the stroke limit shown in the chart.



**Figure 4** – Adjuster Function

If the free stroke is **less** than 3/8", a dragging brake can occur. Check to see that the manual adjustment procedure was followed correctly. Manually readjust the brake following the "Brake Adjustment After Installation" procedure.

2. Check the torque by attaching a torque wrench to the hex extension and turning it in a counterclockwise direction and record the measurement.
3. If the hex extension did not rotate clockwise or there is less than 15 ft. lb. of torque required to rotate the hex extension in the counterclockwise direction, the automatic slack must be replaced. If immediate replacement is not possible, proper brake adjustment must be maintained by manual adjustment.
4. If the hex extension rotates clockwise and has a torque of greater than 15 ft. lb. when rotated counterclockwise, the slack is functioning properly. Check the foundation brake for proper function, worn cam bushing, pins and rollers, broken springs, worn quick connect clevis, worn clevis bushings and clevis pins. Repair as necessary and repeat the function test.
5. Readjust the brake after the function test.