



Commercial Vehicle Products



215 East Watkins Street Phoenix, Arizona 85004 602.253.1007 www.sealcocvp.com

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# 138000/138100 LSAS Troubleshooting

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The Load Sensing Axle System (LSAS) is designed to automatically lower lift axle(s) when the weight in a trailer is above a given point. The axle(s) are raise by pushing the knob in. These procedures assume the system has been properly adjusted for the desired weight. Systems that lower the axle often at lower than expected weights may need the trigger setting adjusted.

## General

The LSAS is a slow operating valve by design. This slow reaction helps prevent deployment when pressure spikes are encountered in the suspension system. Proper operation usually requires good reservoir pressure and the patience to allow the valve to fully raise or lower before attempting to change the position. The use of quick release valves in the system is discouraged for most applications.

#### Air leaks from the exhaust port (Number 3)

This is usually indicative of a half shift. The leakage is actually notification to the driver that the valve did not fully shift and needs attention. To fix pull the knob all of the way out (axle drop). With good air supply to the brake system wait sufficient time for the system to refill and vent the lift spring. Push the knob back if the trailer is empty to lift the axle.

The primary reason for half shifts is the lack of pressure and volume in the system and the lift spring. Pressure protection valves can shut off air pressure after just one position change (up or down). Allow the system plenty of time to vent and refill between changes.

## Axle does not drop until weight is greater than normal

When the park brakes are released the trigger weight (pressure in air springs) to drop the axle is raised. This is to prevent false deployment on the road. If loading requires the park brakes to be off and the axle has not dropped it may help to park the trailer for about a minute or two.

The trigger weight can also be higher when the supply pressure is low.

# Air flows from vent hole between ports #5 & #6

This is commonly found when the supply pressure to the valve is less than the pressure setting. Pull the knob out and fully fill the air system before trying to lift the axle.

