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Boss SFE-6K Proportioner:

Proper retract/park procedure and pump top seal adjustment.

The retracting or parking procedure on essentially all proportioners, regardless of brand, is the most important daily maintenance procedure of your spray machine. We have seen many A-side pump failures over the years, the majority of them were top seal failures due to improper retracting and/or lubing of the A-side pump.

The Boss 6-6K proportioner has the potential to park in the up position if the retract procedure is not done correctly.

From the manual in the “SHUTDOWN” procedure on page 22;

4) Turn pressure toggle to off position.

5) Bleed pressure from system with recirculating/pressure relief valves very slowly.

The pump needs to be “parked” in the down position. You may need to switch the toggle off/on one time to cycle the pump downward.



Retract/Pressure Toggle Switch



Pumps Shown In Parked Position

In step 5), pressure may also be bled off by spraying the gun or through the side blocks (if they are not attached to the gun) by opening the ball valve.

At the end of the day make sure the pumps are in the bottom retracted position. Then put a small amount of DOP (also known as pump lube or TSL, throat seal liquid) in the lube cup on top of the A-side pump to ensure that no iso material will harden on the pump shaft causing a seal failure. The B-side pump should also be lubed initially but isn't critical like the A-side and won't harden on you.

The lube cup will need to be cleaned out on a regular basis and replaced with fresh pump lube. (The lube thickens with the iso material)

Use extreme caution when cleaning the top of your pump and make sure you don't ding the pump shaft. This is a common mistake and pump shafts are expensive.

Some of the Gusmer and Graco machines have an auto lube pump that is used but this too needs to be maintained. Parking the pump is just as important as well as changing out the pump lube on a regular basis. The lube bottle fluid needs to be changed before the pump lube gets too thick to pump through the lube system and locks up your lube pump.

The Boss pumps use an adjustable Chevron top seal. The lube cup with the holes in it is also the packing nut for the top seal.

Top seal packing nut adjustment: the packing nut should be snug but not too tight as it is possible to tighten the nut to the point of locking the pump up. Loosen the packing nut then screw it back in until the nut contacts the seal, tighten the nut approximately 1/8 turn, until snug. Monitor your pumps to make sure there is no excess material weeping out of the top of the pump, tighten the packing nut in very small increments as needed to help stop any excess material that is coming past the top seal.



Initial Seal Contact Position



Position After 1/8" Adjustment

Remember! Parking or retracting your pumps and fresh pump lube at end of day shutdown is the most important daily maintenance procedure of your machine. It is also the most common failure we see here.

Please give us a call if you have any questions.

Turbo Liner Tech Dept.