

P/N 290688 Lift Cylinder

Automated Equipment, LLC

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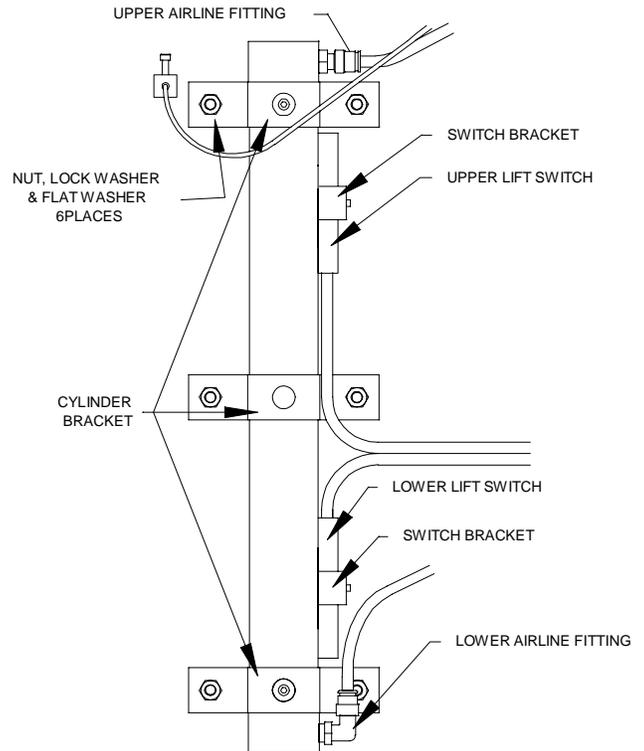
Lift Cylinder P/N 290688 Replacement and Adjustment

Tools required

- 7/16" wrench
- 5/64" allen wrench
- 1/8" allen wrench
- flat blade screwdriver

Removal

1. Unplug the power cord and disconnect the airline from the top of the dispenser.
2. Remove the back panels from the dispenser.
3. Remove the lift saddle from the dovetail on the front of the dispenser.
4. Remove the four screws from the dovetail on the front of the dispenser. Remove the dove tail and white plastic carriage guide.
5. Remove the airlines from the fittings on the lift cylinder. Push the airline into the fitting and push in on the flange at the end of the fitting. While pushing in on the flange pull out on the airline.
6. Mark the upper lift switch with a "U" and lower lift switch with a "L". Loosen the set screw on each of the two cylinder switch brackets and remove the switches.
7. Remove the six nuts, lock washers, flat washers and the three cylinder brackets. Remove the lift cylinder.
8. Clean the dispenser, dovetail and carriage guide.



Assembly

1. Apply Loctite to the six carriage bolts in the back of the dispenser.
2. Hold the cylinder in place with the air fittings on the right hand side. Place a cylinder bracket with set screw on the top two carriage bolts, place a flat washer, lock washer and nut on the two carriage bolts. Do not tighten the nuts at this time.
3. Place the remaining cylinder bracket with set screw on the two carriage bolts at the bottom of the cylinder. Place a flat washer, lock washer and nut on each of the two carriage bolts. Do not tighten the nuts at this time.
4. Place the last cylinder bracket on the two carriage bolts at the middle of the lift cylinder. . Place a flat washer, lock washer and nut on each of the carriage bolts. Do not tighten the nuts at this time.
5. Assemble the dovetail and carriage guide on the front of the dispenser. Apply Loctite on the four dovetail screws and tighten the dovetail in place.
6. Assemble the lift saddle on the dovetail. Place a basket on the lift saddle and raise the dovetail to the top of the cylinder. Raise or lower the lift cylinder until the upper rim of the basket is directly in front of the lift sensor. Slide the upper cylinder bracket up to the top end cap of the lift cylinder and tighten the two nuts.
7. Slide the lower cylinder bracket to the bottom cylinder end cap and tighten the two nuts.
8. Tighten the two nuts for the center cylinder bracket.
9. Place the top of the upper lift switch on the marker line at the top of the cylinder. Install a switch bracket and tighten the set screw.
10. Place the bottom of the lower lift switch on the marker line at the bottom of the cylinder. Install a switch bracket and tighten the set screw.

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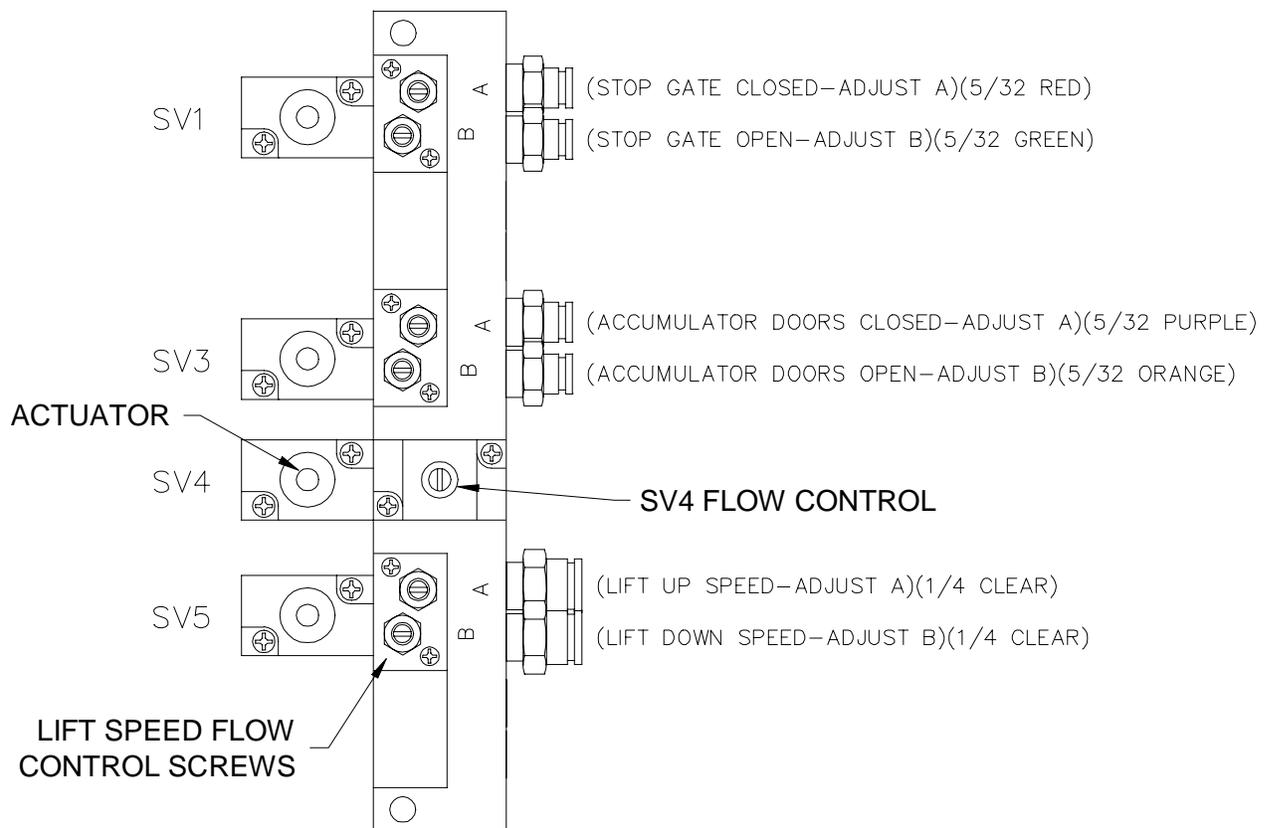
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Lift cylinder speed adjustment

1. Turn the power switch off.
2. Connect the airline at the top of the dispenser. Verify the air pressure regulator is adjusted to 80psi.
3. Locate the solenoid valves SV4 and SV5 on the manifold. When looking at the valve you will notice a small round “eye” in the end of the solenoid. This is the solenoid “actuator”.
4. From fully clockwise adjust the SV4 flow control 3 full turns counter clockwise.
5. Using a ball point pen press and hold the SV4 actuator. The lift saddle will go up.
6. While holding the SV4 actuator, press and hold the SV5 actuator. The lift saddle will go down. Releasing SV5 only will cause the lift saddle to go back up.
7. Time the lift up and down speed. It should be two seconds in each direction.
8. If the lift speed needs adjustment, loosen the lock nut on the flow control adjustment screw to the right of SV5. The “A” screw controls the “up” speed and the “B” screw controls the “down” speed.
9. Adjust the flow control screw counter clockwise to increase the speed and -clockwise to decrease the speed.
10. When the lift speed is correct tighten the lock nut while holding the screw with a screwdriver.



ADJUSTMENT DIRECTIONS

ADJUST SCREW CLOCKWISE TO DECREASE SPEED
 ADJUST SCREW COUNTER CLOCKWISE TO INCREASE SPEED