

To: All Distributors
Regional Sales Managers and National Sales Manager

From: Technical Service

Model: Labrie, Wittke

Subject: Air Actuator Maintenance & replacement

The air actuators on the main body valve shift the spools of the valve to operate the various functions of the valve. The air actuators have two ports in a cylinder case located on either side of a piston, which is attached to the valve spool. As air is supplied to a port, it pushes the piston, which in turn shifts the valve spool to operate the function. A centering spring returns the valve to neutral when the air pressure is lost.

The air actuators on the valve assembly look very similar to each other; all actuators are the same (LabriePlus part number HYA00120) except the actuator on the tailgate raise/lower section (LabriePlus part number HYA00122) The tailgate air actuator limits the stroke of the valve spool due to the hydraulic needs of the tailgate circuit and the power-bleed circuit.

When troubleshooting an actuator that is not operating correctly, refer to the following tips:

- Verify the air actuator is receiving the proper air pressure. To do this, install a 0-150 PSI air gauge in-line with the pressurized line. The gauge should read a minimum of 90 PSI.
- Verify the opposite port of the air actuator is not plugged. To do this, remove the air line from the air actuator and operate.
- Verify that the air pressure inside the air actuator is not bypassing internally by:
 - a. Remove both air lines from the air actuator.
 - b. Apply shop air to one side of the air actuator while feeling/listening for air exhausting from the opposite port of the air actuator. Repeat in both directions.
 - c. If air is bypassing, service or replacement of the air actuator is necessary.

- Ensure the inside of the air actuator is free from debris and damage. Clean with a lint free rag and lightly lubricate with Parker's Super-O-Lube or a silicon based equivalent.

LabriePlus offers a seal kit, part number DV35-K-7, to replace the internal seals in the actuator.

Please contact LabriePlus at (800) 231-2771 with any questions or for further information.