Parts & Service **Bulletin**

To: **All Distributors**
Regional Sales Managers and National Sales Manager

From: **LabriePlus Service**

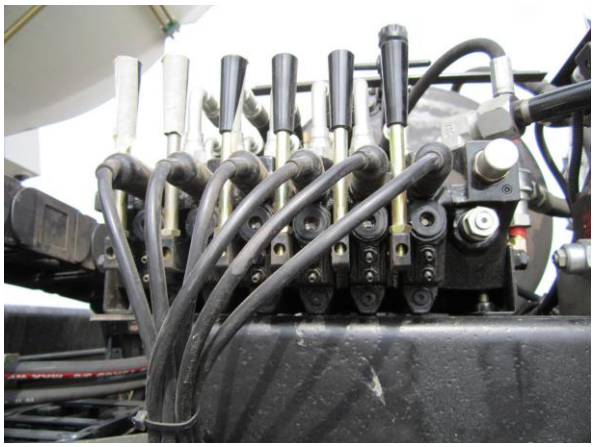
Model: **AG Z-arm**

Subject: **Arm Motor Bypass Test Procedure**

When the gripper carriage starts to raise slowly, struggles to lift appropriately sized cans, or drifts down part of the troubleshooting may involve testing for bypass of the arm raise motors.

The motors on the Z-arm, used for arm up and arm down, are unable to be tested using a case drain flow test. Therefore, to test the integrity of the motors, backpressure will be applied to the motor outlet to test the cycle time before and after the back pressure is introduced to see the variance of time. To do this, a needle valve and 0-3000psi gauge will need to be installed inline on the outlet hose directly off the motor to generate the required 1000 psi of backpressure. Install the needle valve and 0-3000psi gauge inline of the hose coming out of the motor for arm down as we plan to raise the carriage.

NOTE: The Labrie installed fittings are JIC #8
NOTE: The counterbalance valve may need to be unbolted from the assembly to allow room to install the needle valve and gauge.
NOTE: A drip pan will be needed to catch fluid when removing and installing fittings

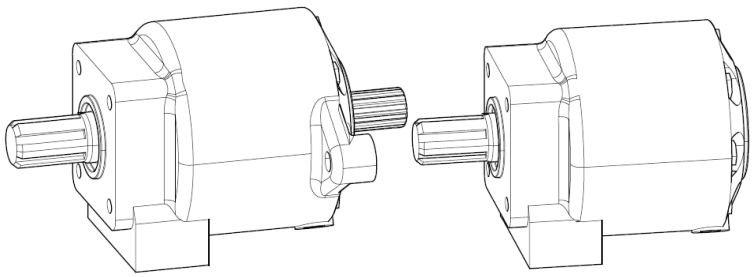


NOTE: The following requires 2 people.

NOTE: It is important to remember that when operating the Alleygator Z-arm to be aware of your surroundings and ensure there is nothing in the way of the intended movement. Also, be sure to follow all appropriate lockout tag out procedures and work instructions as contained in service and repair manuals as well as your standard shop/facility procedures before attempting this procedure.

One person should very slowly operate the arm up function manually by using the lever on the VPL valve just enough to generate pressure for the second person to adjust the needle valve to the required 1000psi backpressure. Once this pressure is set, carefully lower the arm completely. Now that the 1000psi of backpressure for the arm down function is set, run a cycle time of just arm up using a stopwatch. Gently lower the arm, back the needle valve off to remove the 1000psi backpressure to safely lower the arm, and then test the cycle time of solely arm up without back pressure applied. The cycle times between the motor being loaded and unloaded should be identical. Any variance between the cycle times shows the amount of bypass the motor is experiencing internally. Excessive bypass requires the motor/s to be replaced using the below part numbers.

0039-212 0039-211



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