labrieplus

Parts & Service **Bulletin**

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

From: **Technical Service**

Model: **Automizer/Right Hand**

Subject: **Grabber Holding Valve Checkout and Adjustment**

The grabber hydraulic circuit of the Labrie Right Hand arm incorporates a holding valve to ensure that the grabbers do not drift out of position without operator input. This valve is located on the back side of the grabber head. The current production holding & flow divider valve, part number HYV02531, was placed into service in mid 2013.

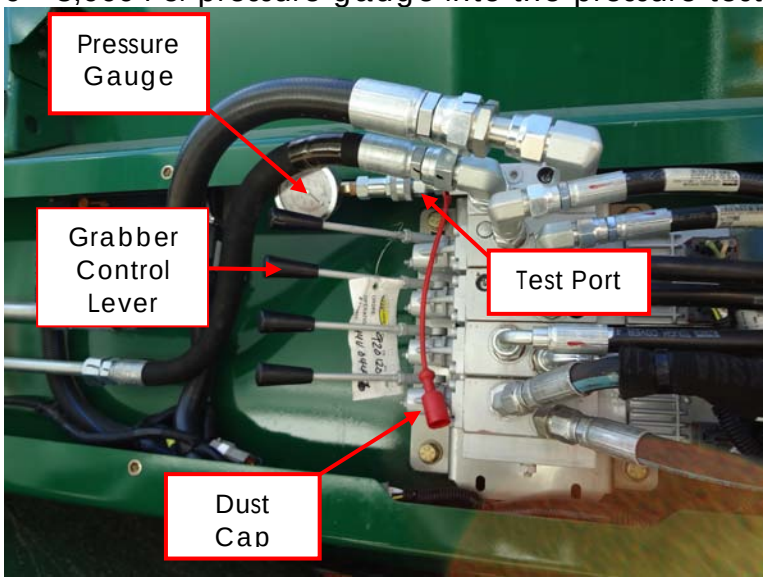
Labrie updated the holding valve to a version that integrates a flow divider to provide smooth and even operation of both grabbers. The flow divider function is preset at the factory; adjustment is not necessary or possible. The grabber holding valve is adjustable; checkout and adjustment information is attached.

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

GRABBER HOLDING VALVE PRESSURE CHECKOUT PROCEDURES

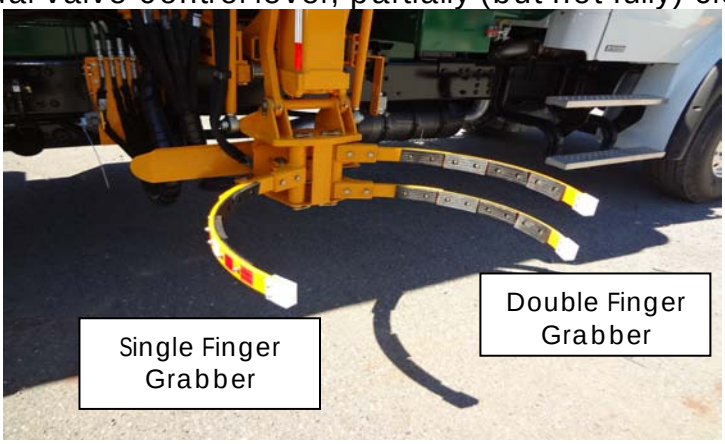
The two (2) adjustable cartridges on the top of the holding valve each control a grabber cylinder.

1. Remove the dust cap on the pressure test port of the arm directional control valve and attach a 0 – 3,000 PSI pressure gauge into the pressure test port.



2. Start the engine and engage the hydraulic pump.
3. Extend the lift arm.

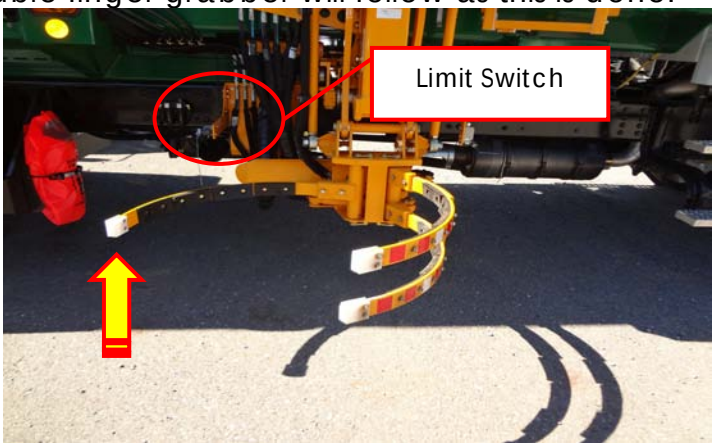
4. Using the manual valve control lever, partially (but not fully) close the grabbers.



5. Turn off the hydraulic pump, shut down the engine, and perform lockout/tagout procedures.

Double Finger (Forward) Grabber Cylinder Holding Pressure Checkout:

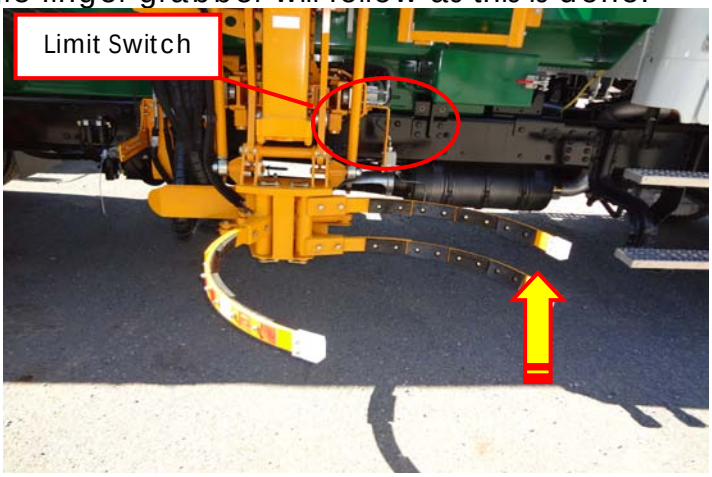
6. Manually push the single finger grabber toward the body until it touches the limit switch. The double finger grabber will follow as this is done.



7. Start the engine, and engage the hydraulic pump.
8. Using the manual valve control lever, slowly engage the valve to open the grabbers. When the dual finger grabber starts opening, check the pressure on the gauge; it should read 800 – 850 PSI.

Double Finger (Forward) Grabber Cylinder Holding Pressure Checkout:

6. Repeat steps 4 & 5.
7. Manually push the double finger grabber toward the body until it touches the limit switch. The single finger grabber will follow as this is done.

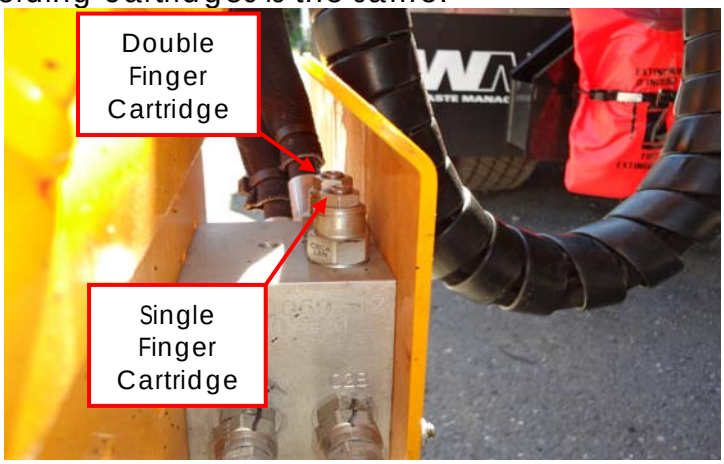


8. Start the engine, and engage the hydraulic pump.
9. Using the manual valve control lever, slowly engage the valve to open the grabbers. When the single finger grabber starts opening, check the pressure on the gauge; it should read 800 – 850 PSI.

If either grabber holding pressure is not 800 – 850 PSI, perform the Grabber Holding Valve Pressure Adjustment Procedures.

GRABBER HOLDING VALVE ADJUSTMENT PROCEDURES

The rearward holding cartridge controls the double finger (forward) grabber; the forward holding cartridge controls the single finger (rearward) grabber. The adjustment procedure for both holding cartridges is the same.



1. Initial setting:
   a. Using a 9/16" combination wrench, loosen the adjustment screw jam nut by turning it counter-clockwise.
   b. Using a 5/32" Allen wrench, turn the adjustment screw in (clockwise) until it bottoms out.
   c. Turn the adjustment screw out (counter-clockwise) 3½ turns.
   d. While holding the adjustment screw in place, tighten the adjustment screw jam nut by turning it clockwise.
   e. Check the pressure setting using the Grabber Holding Valve Checkout Procedure. If either holding pressure is not 800 – 850 PSI, follow the Fine adjustment procedure.

2. Fine adjustment:
   a. Using a 9/16" combination wrench, loosen the adjustment screw jam nut by turning it counter-clockwise.
   b. Using a 5/32" Allen wrench, turn the adjustment screw in (clockwise) to raise the holding pressure, or out (counter-clockwise) to lower the holding pressure, until the holding pressure is 800 – 850 PSI.
   c. While holding the adjustment screw in place, tighten the adjustment screw jam nut by turning it clockwise. The holding pressure should be re-checked after tightening the adjustment screw jam nut.