

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

From: Technical Support

Model: Labrie Alley Gator

Subject: Hydraulic Control System Diagnostic Procedures

The Labrie Alley Gator consists of three main valves to control the functions of the hydraulic system. These items are:

- **Hydraulic Pump Monoblock Valve** – Controls the hydraulic pressure and flow to the packer, arm and body functions.
- **Packer Valve** – Controls the functions of the packer system.
- **Arm/Body Valve** – Controls all functions of the automated arm, as well as the body tailgate raise/lower and body hoist raise/lower functions. Options such as hopper covers may also be controlled by this valve.

With the use of electro-magnetic valves within all valve assemblies on the Alley Gator, hydraulic system cleanliness is critical. Proper and timely performance of planned maintenance per the schedule outlined in the Labrie Alley Gator Maintenance Manual (part number 153178) must be observed.

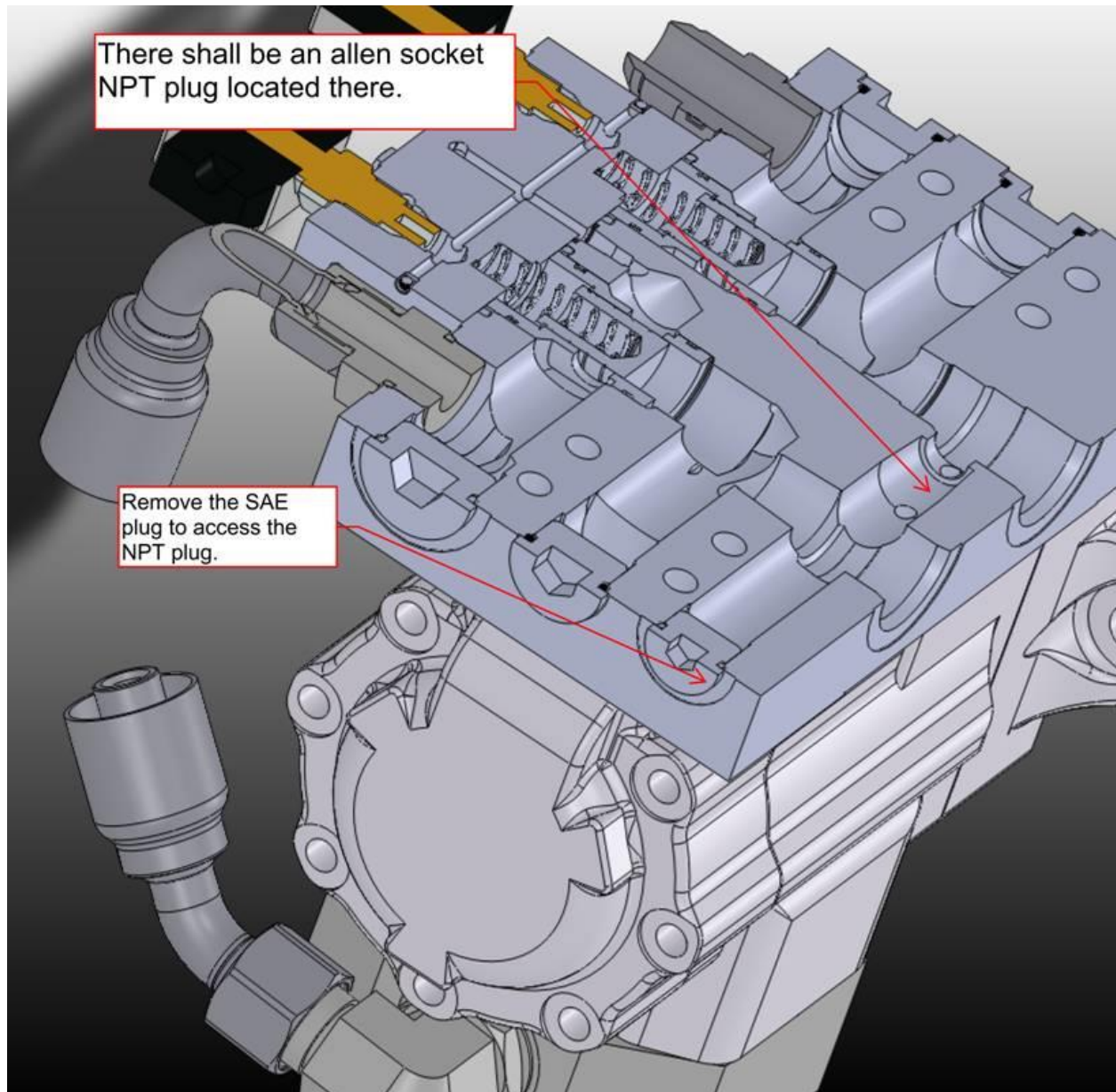
The following pages describe tips to aid in the diagnostic procedures when performing service to an Alley Gator hydraulic system.

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

Diagnostic tips for the Alley Gator Hydraulic System

Symptom: Unable to build pressure on the arm/body control valve or the packer valve, unless deadheading functions on both valves.

Possible solution: There is a plug in the hydraulic pump monoblock valve that separates the two hydraulic systems. This plug may have backed out, allowing load sense to pass between hydraulic systems.



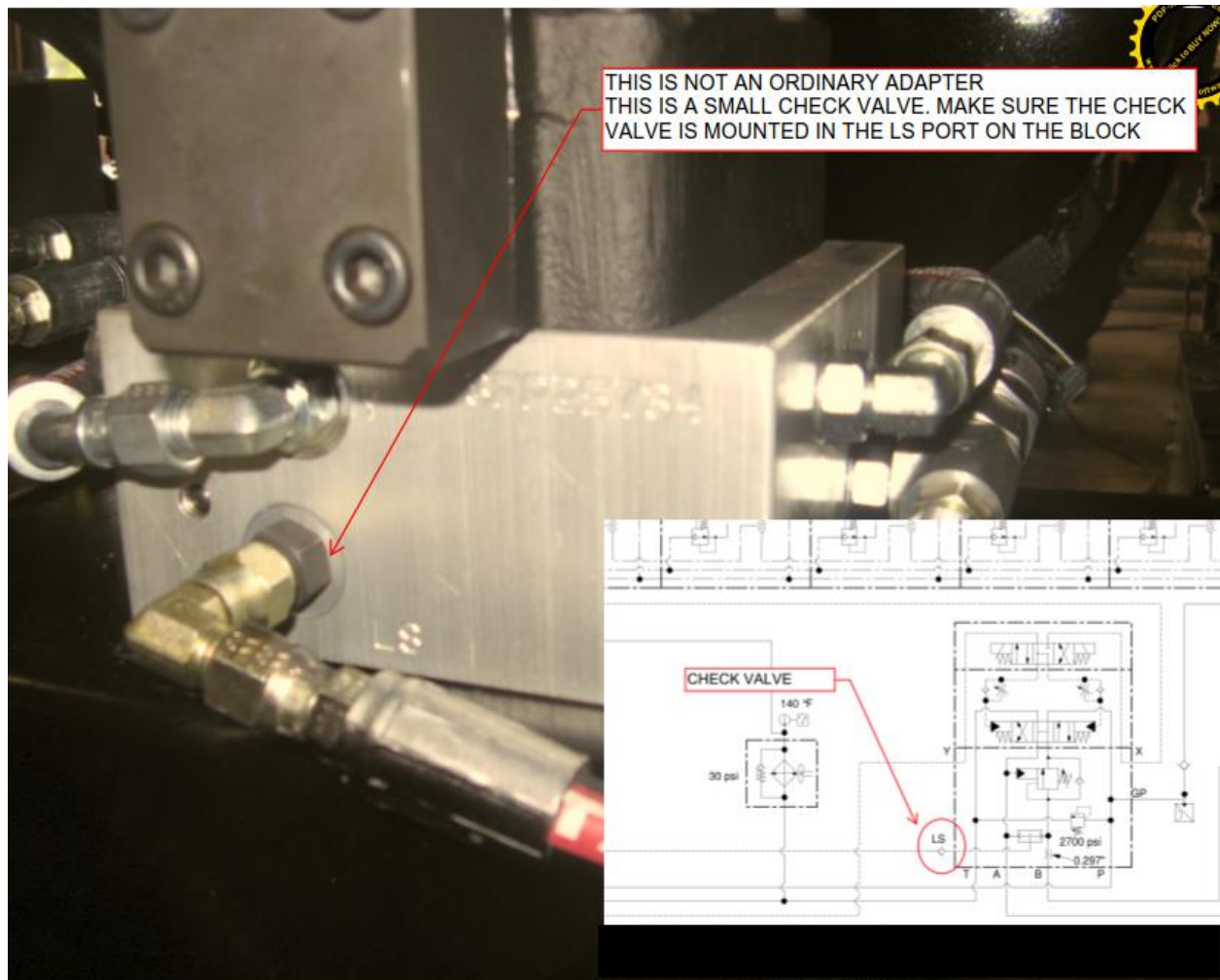
Diagnostic tips for the Alley Gator Hydraulic System

Symptom: Replaced the hydraulic pump monoblock valve, and now the packer valve will not function.

Possible solution: Ensure the compensator block is installed in the hydraulic pump monoblock valve, in the Aux 2 port, and the standby pressure is adjusted correctly.

Symptom: Replaced the packer valve but it is inoperative.

Possible solution: Verify that the check valve in the LS (load sense) line on the packer valve is installed correctly.



Diagnostic tips for the Alley Gator Hydraulic System

Symptom: The arm/body control valve functions, but not the packer valve; or the packer valve functions but not the arm/body control valve.

Possible solution: On the hydraulic pump monoblock valve, verify both coils are magnetized. If power and ground test OK, swap the coils and verify operation. If there is no change, swap the main relief cartridges in the hydraulic pump monoblock valve. The coils and main relief cartridges are identical between the two.



Symptom: Standby pressure is correct, but unable to generate consistent load sense or relief pressure.

Possible solution: Remove the aluminum block from the hydraulic pump monoblock valve that houses the coils and main reliefs, and verify smooth and consistent movement of the plungers behind it. These plungers are what sense the load sense pressure and allow the pump to ramp up.