

SABANTO AUTONOMY SYSTEM

Priority Flow Divider Integration



SABANTO

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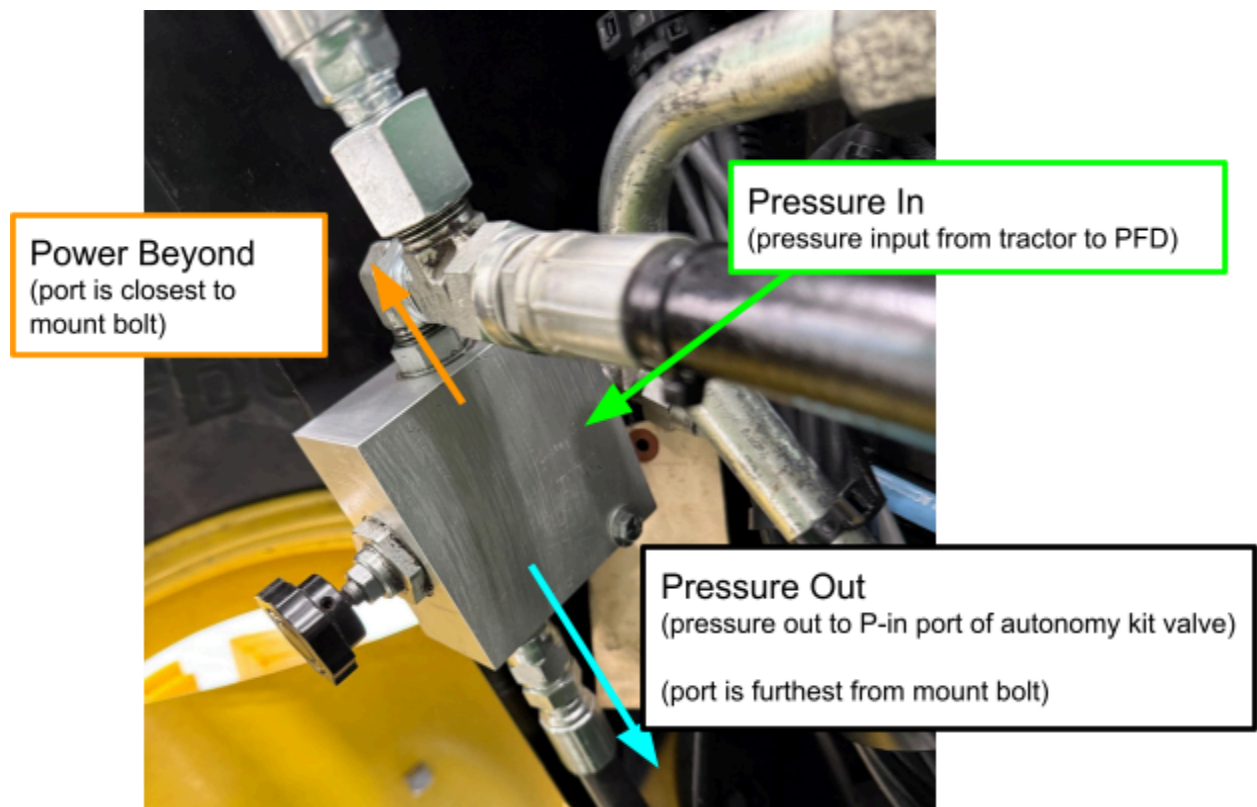
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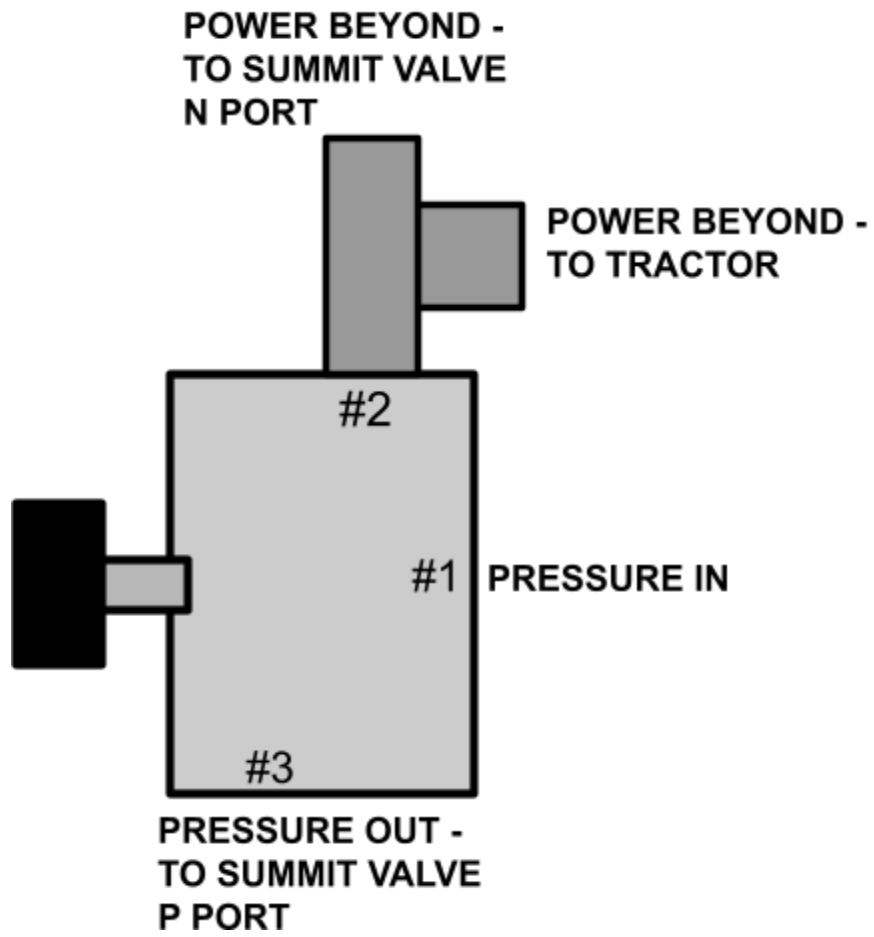
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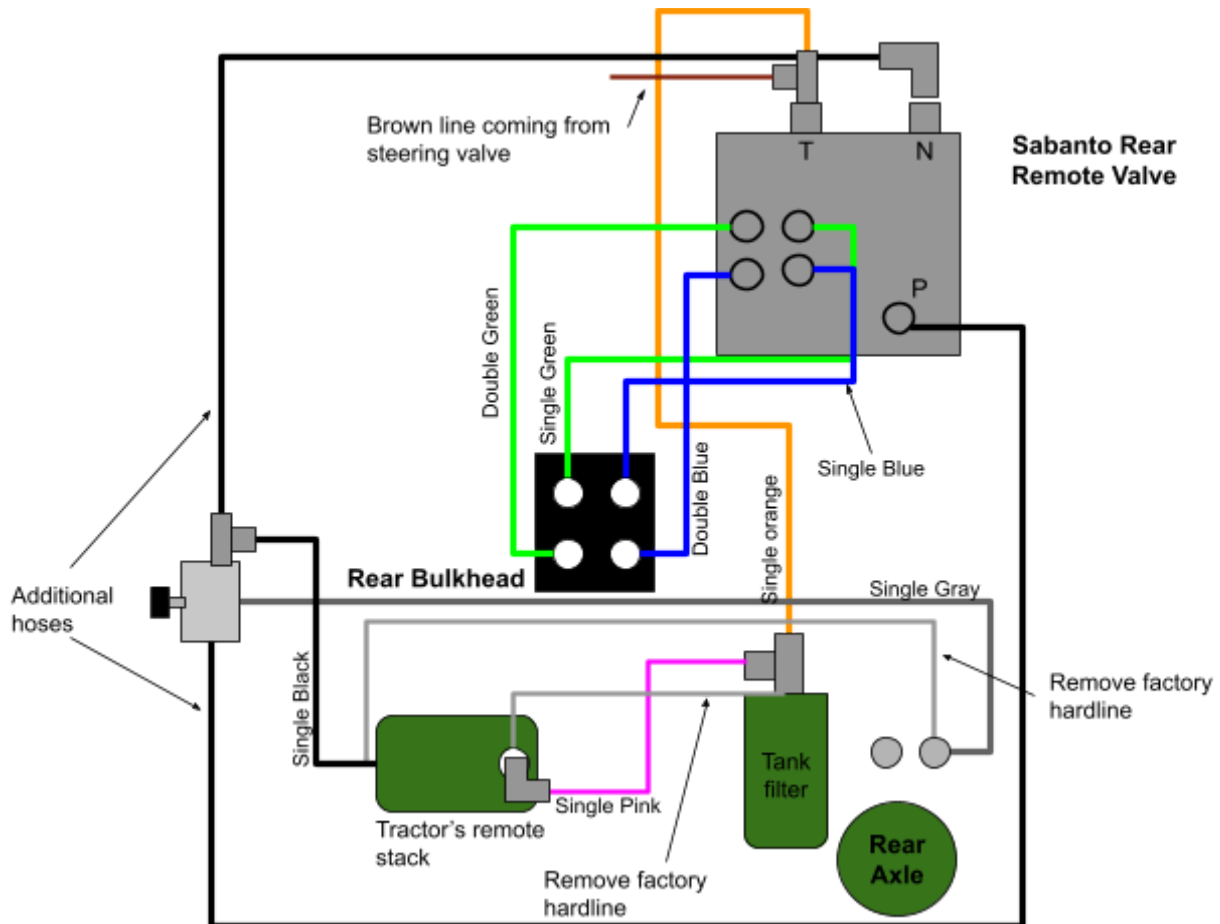
Purpose

Depending on the system, the Summit hydraulic valve spools can get stuck due to too much flow/pressure. Too much flow/pressure doesn't allow the spools to return to their normal position after being actuated one way or the other. Adding the PFD to the circuit limits the amount of flow/pressure going in the valve to allow the spools to return to normal and not get stuck in an open state.

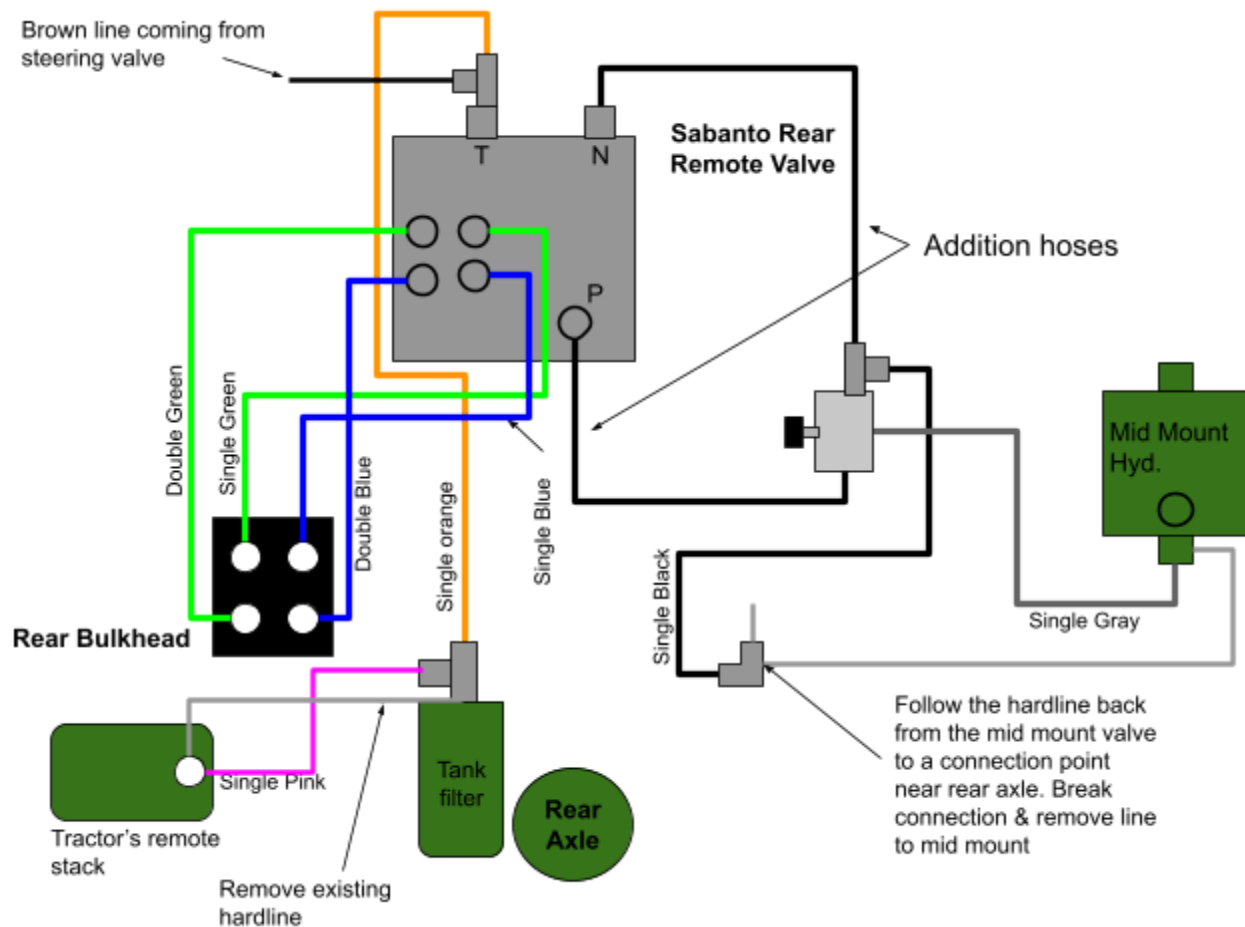




Plumbing Diagram - Non Mid Mount Hydraulic



Plumbing Diagram - Mid Mount Hydraulic



Setting PFD

- Turning dial "in" or clock-wise gives more priority/flow back to the tractor
- Turning dial "out" or counterclockwise gives more priority/flow back to the summit valve
- Start by setting the dial all the way out giving full priority to the summit valve, set tractors RPM to its highest point. Cycle to hydraulic spools turning the dial inward till the spools don't stick. (you can physically hear this)
- Also check enough flow is making it through the Summit valve for the implement.
- Set RPMs to 1500-1700 (rough end of row RPMs) you may need to turn the dial back out to make sure the implement is raising/lowering in an acceptable time

PFD Retrofit kit for 6135E

(1) PFD Valve

(1) -10 MORB x -10 MJIC elbow —> PFD Pressure-In Port

(1) -10 MORB x -10 MJIC elbow —> PFD Power Beyond-Out Port

(1) -10 MORB x -10 MJIC elbow —> PFD Pressure-out-to-Summit-Valve P Port

(1) -10 Run Tee -10 FJIC swivel x -10MJIC x -10MJIC —Connects to -10 MJIC elbow on PFD Power Beyond-Out Port

(1) Pressure In Hose: Use existing hose from 6135E kit

(1) Power Beyond Hose: Use existing hose from 6135E kit

(1-new) Hose, PFD Power Beyond-Run Tee-to-Summit Power Beyond Port

- Hose length: 45"
- Fitting 1: -10 FJIC swivel straight
- Fitting 2: -10 FJICs swivel straight

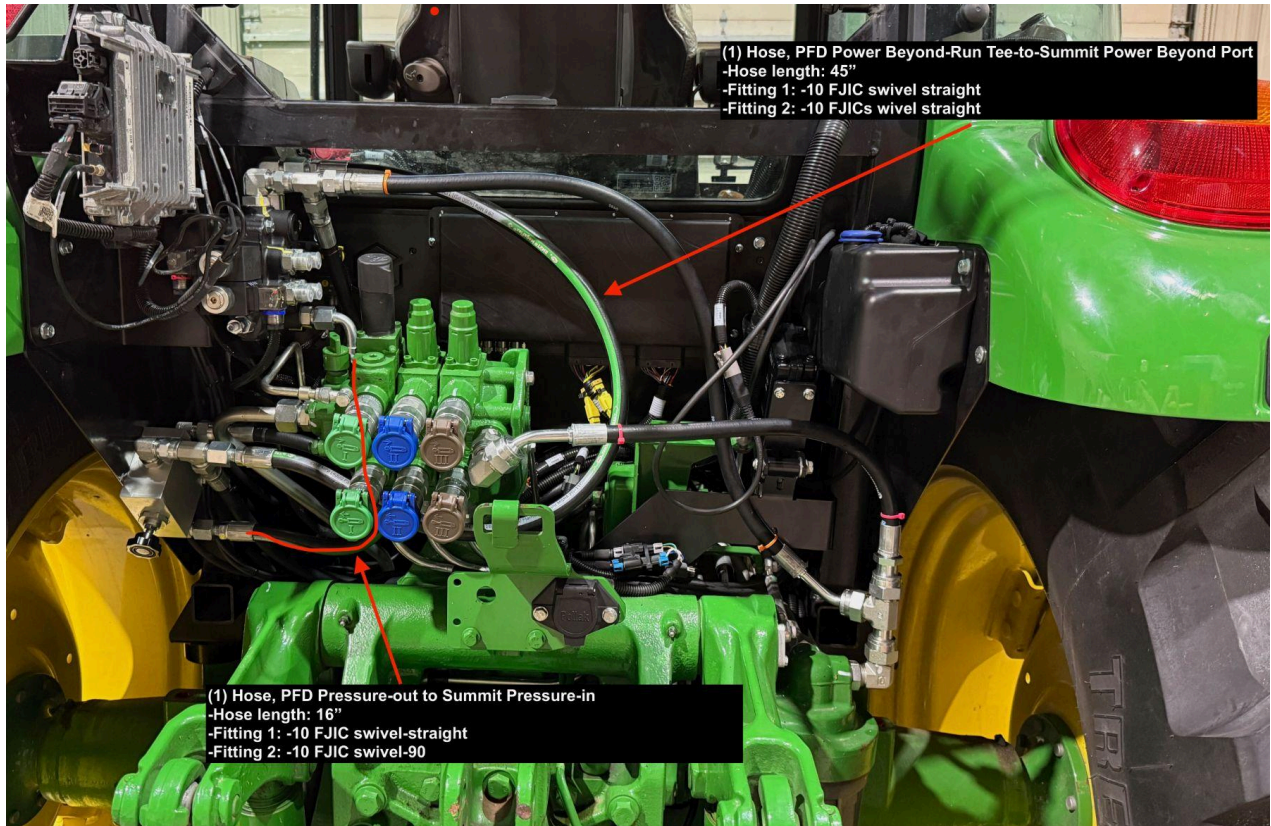
(1-new) Hose, PFD Pressure-out to Summit Pressure-in

- Hose length: 16" from center of elbow port to end of straight fitting
- Fitting 1: -10 FJIC swivel straight
- Fitting 2: -10 FJIC swivel 90 short elbow

(2) M6-1.0 x 65mm flange head bolt

(2) M6-1.0 nylon lock nut

(4) M6 flat washer



(1) Hose, PFD Power Beyond-Run Tee-to-Summit Power Beyond Port
-Hose length: 45"
-Fitting 1: -10 FJIC swivel straight
-Fitting 2: -10 FJICs wivel straight

(1) Hose, PFD Pressure-out to Summit Pressure-in
-Hose length: 16"
-Fitting 1: -10 FJIC swivel-straight
-Fitting 2: -10 FJIC swivel-90

Install Images

