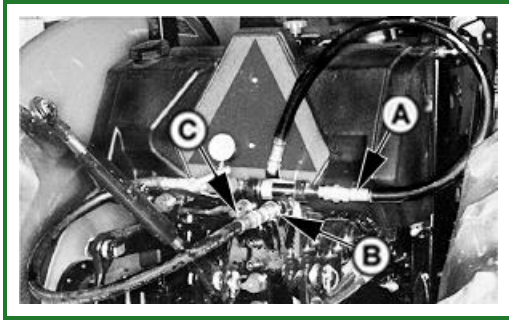


## Pump Flow Test—With SCV



### PY4821-UN: Pump Flow Test

#### LEGEND:

A - Flowmeter

B - Coupler

C - Adapter 3/4-16 M ORB x 3/4 NPT Sw

#### REASON:

To determine if hydraulic pump can provide adequate flow under pressure.

#### EQUIPMENT:

- Flowmeter (A).
- Coupler (internal half) (B).
- Adapter 3/4-16 M ORB x 3/4 F NPT Sw (flowmeter that uses 37° flare hose also requires Adapter 3/4-16 M ORB x 3/4-16 M 37°) (C).

#### CONNECTIONS:

1. Assemble test equipment and connect flowmeter inlet hose to one of rear couplers.
2. Insert flowmeter return hose into transmission/hydraulic dipstick fill hole.

#### PROCEDURE:

### **⚠ CAUTION:**

***To prevent hydraulic oil from overheating DO NOT hold the SCV or joystick in the extend or retract position for an extended period of time. Overheating of hydraulic oil will cause malfunction of hydraulic components and possible personal injury.***

1. Fully open flowmeter control valve.
2. Start tractor and run at 2400 rpm.
3. Move SCV lever as necessary to pressurize test outlet. Slowly close flowmeter control valve until 19685 kPa (103.5 bar) (2855 psi) shows on gauge.
4. Observe flow, then release pressure.

#### RESULTS:

If flow is below minimum:

- Mesh filter may be restricted.
- Filter/Manifold may be restricted.
- Suction line may be restricted.
- Suction line may be leaking air.

Tighten clamps on both ends of suction line.

- Relief valve may be leaking.
- Control lever or cables not allowing full open valve.
- Coupler damaged. Try other outlets.
- SCV valve spool scored or leaking.
- Pump may be worn or damaged, requiring repair or replacement.

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