

13. Slowly depress forward directional pedal and observe gauge. Gauge should slowly rise to approximately 41368 KPa  $\pm$  1378KPa (6000psi  $\pm$  200psi) and relief valve will open with an audible squealing noise.
14. Repeat same procedure with reverse pedal.

### Specifications:

- Pump pressure should reach approximately 41368 KPa  $\pm$  1378KPa (6000psi  $\pm$  200psi) in either direction and then relieve.

### Results:

- If pressure will not reach 41368 Kpa Maximum (6000psi) in either direction, check charge Pressure. (SEE "CHARGE PUMP PRESSURE TEST on page 14 )
- If charge pressure is good and hydrostatic pump pressure will not get up to relief pressure hydrostatic pump is worn or damaged.
- If pressure reaches 41368KPa(6000psi) in one direction and not the other, one of the relief valves is defective or the seat is leaking.

## 3. CHARGE PUMP PRESSURE TEST

### Reason:

To ensure that charge pump is operating at specified pressure to supply oil to hydrostatic pump.

### Equipment:

JT03344	2,000 Kpa (300 psi) Gauge
JT03017	Hose with quick coupler
JT03240	7/16-20M 37° X 7/17-20 F 37 ° Elbow
JT03264	Quick coupler F7/16-20 F 37 ° Adaptor
JT05480	Quick coupler MXM14-1.5 ORB Adapter

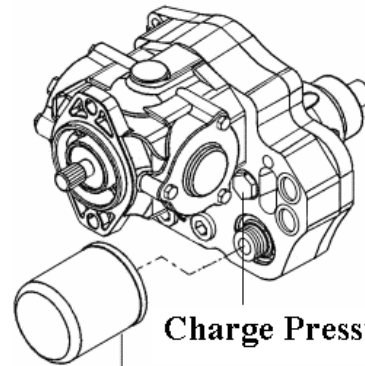


### Procedure:

1. Park tractor on a level surface and set park brake.
2. Turn key switch to OFF position.
3. Shift transmission to NEUTRAL.

**IMPORTANT:** Make sure to relieve system pressure before loosening any system lines or hoses.

4. Cycle all controls to relieve any pressure that may be in the hydraulic system.



**Charge Pressure Test Port**  
**Hydraulic oil filter**

**NOTE:** 4WD shaft removed for clarity

5. Underneath the tractor, at the front of the tunnel, locate the hydrostatic transmission, Remove the plug in the charge pressure test port.
6. Assembled test equipment as shown and install to test port.
7. Start engine and run at high idle (2500~2700rpm).
8. Check pressure reading gauge.

### Specifications:

Charge Pressure-----1723-2068KPa(250-300psi).

### Results:

- Charge pressure should reach 1723-2068KPa (250-300 psi) cannot obtained; the mesh inlet filter may be restricted, the suction line may be restricted or leaking air, or front hydraulic pump may be defective