

## Pressure Test Tools

Required Tools		
4C4892	Fitting Group	1
9S7359	Blocking Plate	2
814072	Plug	2
813400	Connector	2
812396	Hose	1
812995	Union	1
814227	Union	1
814543	Connector	1

Use the above pressure gage kit for all of the pressure tests that follow. In some procedures, more than one of the same pressure gauge is required. It may be necessary to use two pressure gauge kits. Also included in the above chart are any other required tools for the following pressure tests.

## Charge Pump System Pressure Test

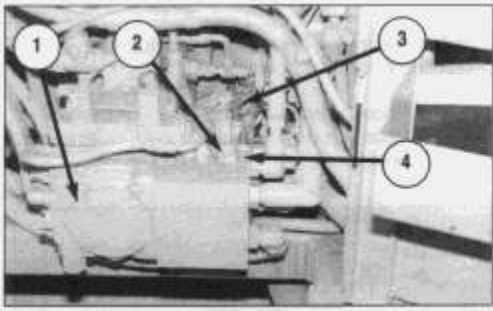
Required Tools		
8T0855	Pressure Gauge 4000kPa (600 psi) <sup>1</sup>	1

<sup>1</sup>Part of 4C4892 Fittings Group



**WARNING**

Refer to the **WARNING** on the first page of Troubleshooting.



#### Charge Pump System Pressure Test

(1) Vibratory pump. (2) Charge pressure relief valve. (3) Pressure tap. (4) Cooling/control valve.

1. Make sure that the parking brake is applied. Make sure the propel control lever is in neutral. Also make sure the ASC (if equipped) is in the ZERO travel speed position.
2. Connect a 4000 kPa (600 psi) pressure gage to pressure tap (3) marked (CP) on cooling/control valve (4).
3. Start and run the engine at high idle. Check the pressure gage. The charge relief pressure setting should be  $2500 \pm 140$  kPa ( $360 \pm 20$  psi)
4. If the charge relief valve pressure is not correct, it must be adjusted. Loosen the locknut with a 17mm open end wrench and use a 5mm Allen wrench to turn adjustment screw clockwise to increase the pressure or counterclockwise to decrease the pressure.
5. After the charge relief valve pressure is adjusted, remove the pressure gage from pressure tap (3).

## Reverse Main (High Pressure) Relief Valve Pressure Test

<b>Required Tools</b>	
8T0861 Pressure Gauge 60 000 kPa (8700 psi) <sup>1</sup>	1

<sup>1</sup>Part of 4C4890 Fittings Group

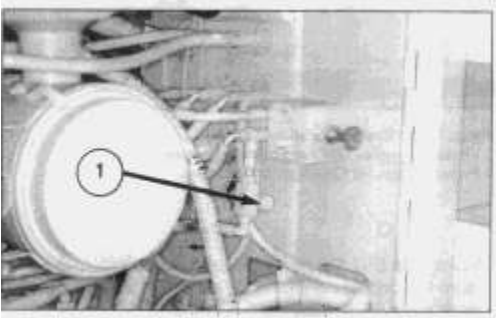


**Refer to the WARNING on the first page of Troubleshooting.**

**NOTE:** Do the Charge Pump System Pressure Test before doing the main (high pressure) relief valve pressure test.

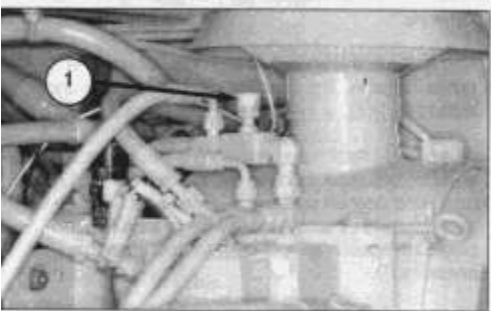
1. Before performing the testing and adjusting procedure, do the following

- \* Place the propel control lever in neutral.
- \* Place wood wedges under both sides of the two drums.



Under Operator Platform (CB-534C)

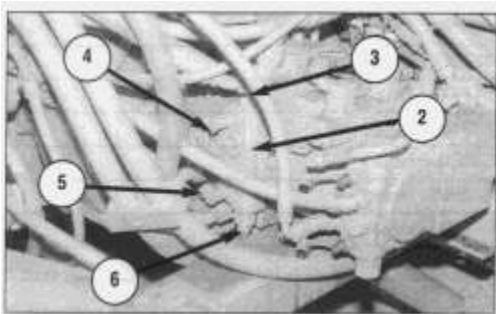
(1) Needle valve thumb screw.



Under Operator Platform (CB-634C)

(1) Needle valve thumb screw.

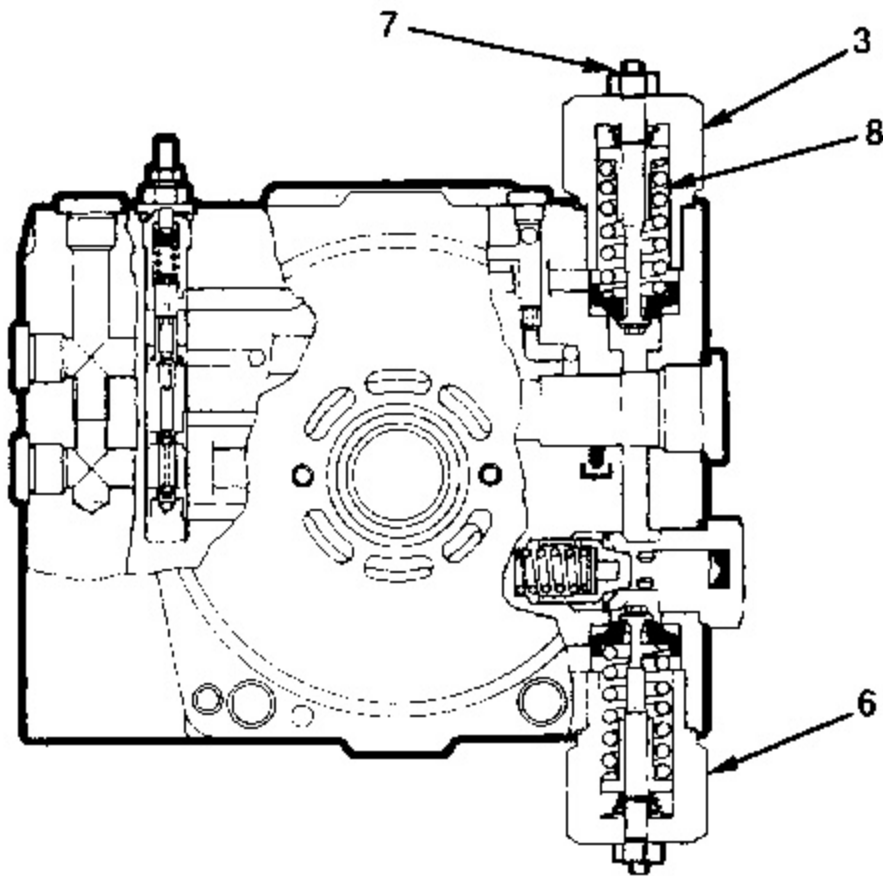
**2.** Loosen the setscrew with a 5/64 Allen wrench on needle valve thumb screw (1) and turn needle valve thumb screw (1) fully clockwise to close the valve.



Propel Pump Location

(2) Propel pump. (3) Reverse relief valve cap. (4) Reverse relief valve pressure tap. (5) Forward relief valve pressure tap. (6) Forward relief valve cap.

**3.** Connect two pressure gauges to pressure taps (4) and (5).



Cross section Pump Head

(3) Reverse relief valve cap. (6) Forward relief valve cap. (7) Adjustment screw. (8) Relief valve cartridge.

**4.** Loosen the adjuster locknut on the Pressure Override Relief (POR) valve. Turn adjuster (7) on the POR in (clockwise) one half turn. Tighten the lock nut.

**5.** Start and run the engine at high idle.

**6.** Move propel control lever to the full reverse direction. Read maximum pressure at pressure tap (4). The relief valve pressure should be  $45\,000 \pm 1380$  kPa ( $6525 \pm 200$  psi).

**(7)** If the relief valve pressure is not correct, adjust the reverse main (high pressure) relief valve as follows: