

## Relief Valve (Swing) - Test and Adjust

SMCS - 5454-036

### Specification

Table 1

<b>"Relief Valve (Swing) - Test and Adjust"</b>			
<b>Item</b>	<b>Machine Settings</b>	<b>Specification</b>	<b>Actual</b>
<b>Right Swing</b>	Engine speed dial "10" AEC switch OFF	24550 ± 1000 kPa (3561 ± 145 psi)	
<b>Left Swing</b>	Engine speed dial "10" AEC switch OFF	24550 ± 1000 kPa (3561 ± 145 psi)	

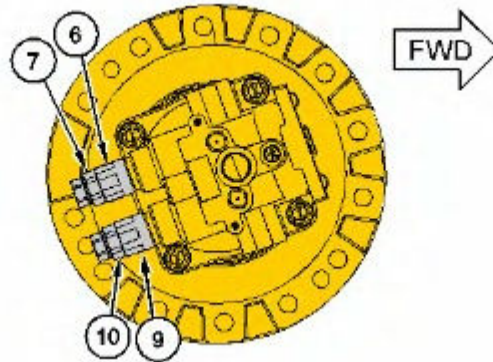


Illustration 1

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Table 2

<b>Torque Specification</b>		
<b>Item</b>	<b>Part</b>	<b>Torque</b>
(6)	Relief Valve (right swing)	177 ± 18 N·m (131 ± 13 lb ft)

(7)	Locknut	80 ± 8 N·m (60 ± 6 lb ft)
(9)	Relief Valve (left swing)	177 ± 18 N·m (131 ± 13 lb ft)
(10)	Locknut	80 ± 8 N·m (60 ± 6 lb ft)

## Introduction

Two relief valves are located in the head of the swing motor. These relief valves limit the pressure in the left and right swing circuits to the swing relief valve settings. The following procedure will determine if the swing relief valves are out of adjustment.

## Required Tools



Illustration 2

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Tooling (A) 198-4240 Digital Pressure Indicator Gp

Table 3

Tool	Item	Qty	Part Number	Description
A			198-4240	Digital Pressure Indicator Gp
	A1	1	198-4234	Indicator
	A2	1	198-4239	Pressure Sensor 41,368 kPa (6,000 psi)
	A3	1	198-4236	Extension Cable

## Machine Preparation

1. Position the machine on level ground and stop the engine.
2. Release the pressure in the hydraulic system. Refer to Testing and Adjusting, "System Pressure - Release".

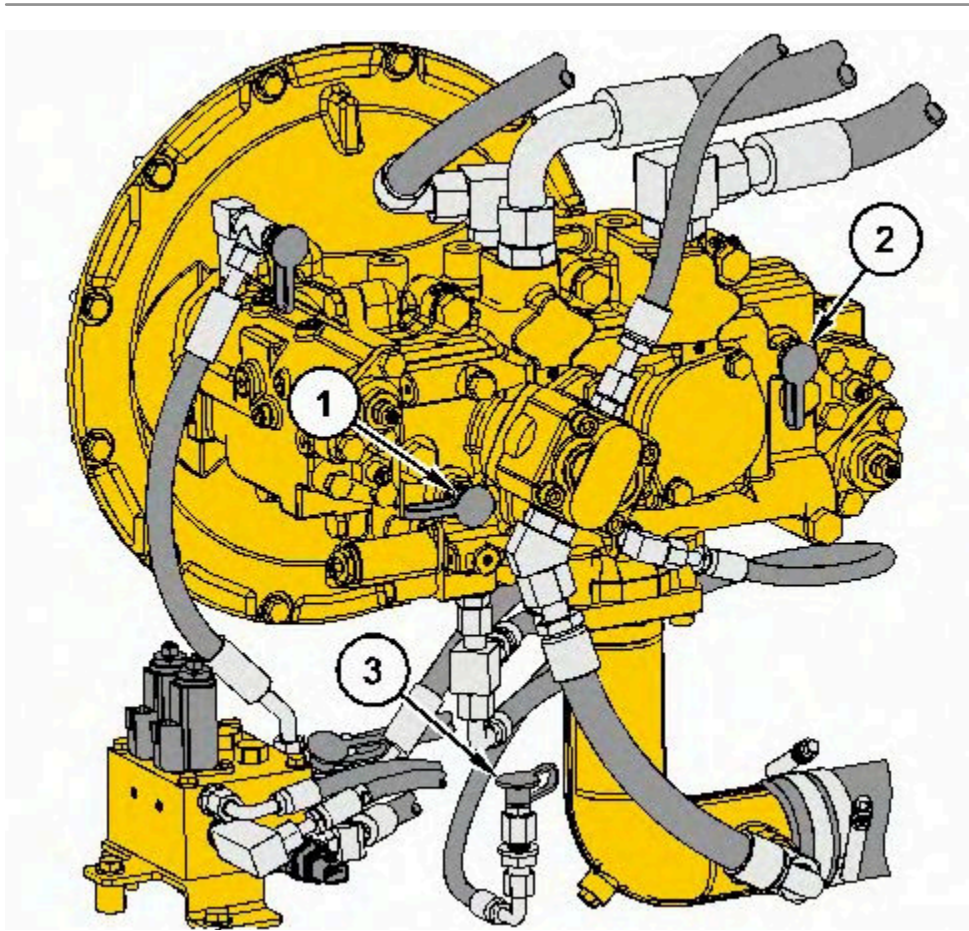


Illustration 3

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Pump compartment

- (1) Pressure tap (delivery pressure for drive pump)
- (2) Pressure tap (delivery pressure for idler pump)
- (3) Pressure tap (power shift pressure)

3. Attach a 41,368 kPa (6,000 psi) pressure sensor to pressure tap (2) .