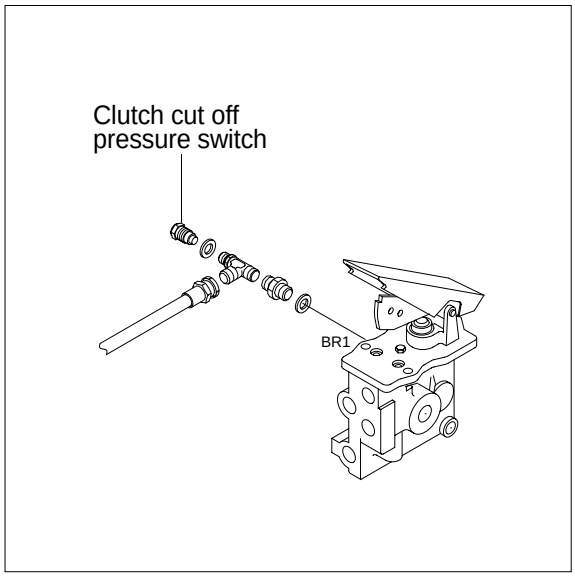
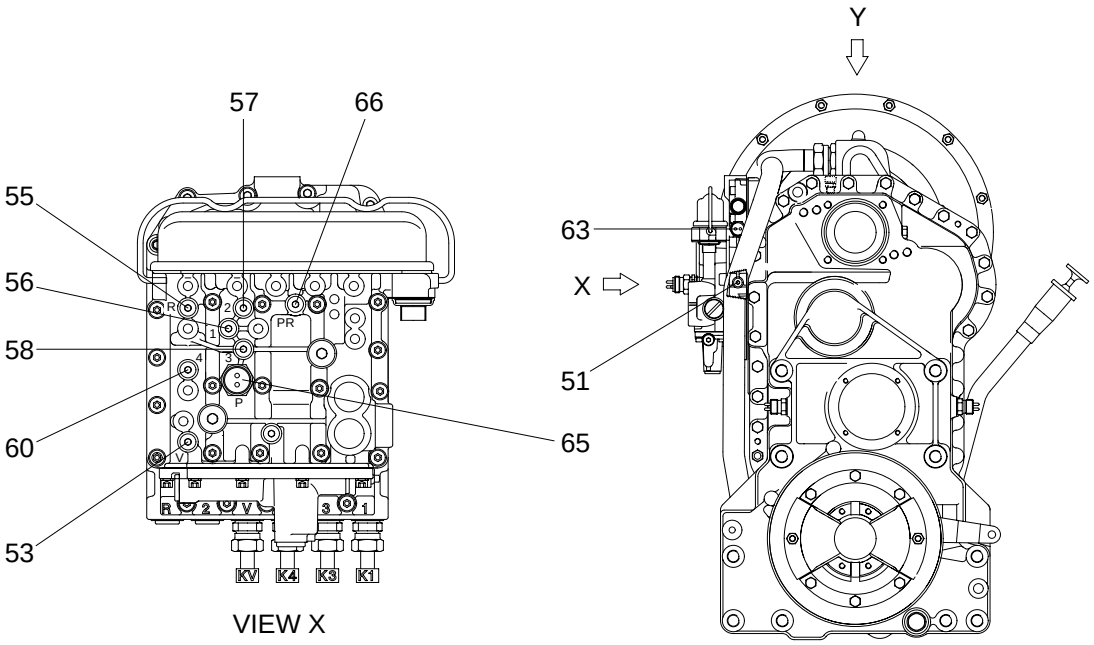
1. CLUTCH CUT-OFF PRESSURE SWITCH TEST

The setting pressure of the clutch cut-off pressure switch should be suited with the specification. The rated pressure is 25 kgf/cm^2. For the detailed method for pressure adjusting, refer to page 4-22.

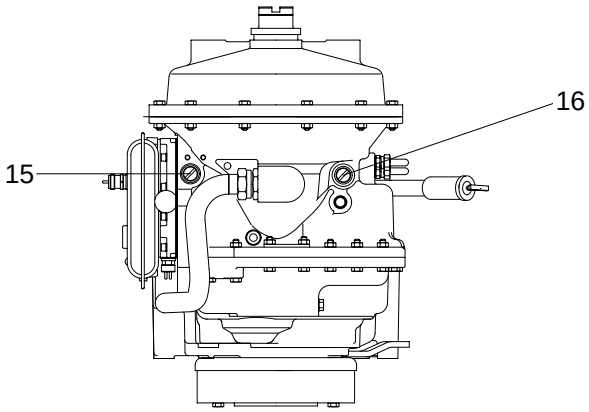


2. TRANSMISSION MEASURING POINTS AND CONNECTIONS

The measurements have to be carvied out at hot transmission(About 80~95℃).



VIEW X



VIEW Y

1) OIL PRESSURE AND TEMPERATURE

Port	Description		Size
51	Converter inlet-opening pressure(9 bar)		M10 × 1
53	Forward clutch	V	M10 × 1
55	Reverse clutch	R	M10 × 1
56	1st slutch	1	M10 × 1
57	2nd clutch	2	M10 × 1
58	3rd clutch	3	M10 × 1
60	4th clutch	4	M10 × 1
63	Converter outlet temperature 100℃, short-time 120℃		M14 × 1.5
65	System pressure(16+2 bar)	P	M10 × 1
66	Reducing valve(10 bar)	PR	M10 × 1

2) DELEVERY RATES

Port	Description	Size
15	Connection to oil cooler	M26 × 1.5
16	Connection from oil cooler	M26 × 1.5

3) TESTING

Before testing is carried out, ensure that the oil is at the correct level and at normal operating temperature.

4) TORQUE CONVERTER STALL TEST

Mark the engine crankshaft pulley with chalk or reflective tape and check the maximum no-load speed of the engine using a stroboscopic tachometer.

Raise the loader arms and set the machine against fixed obstruction. Apply the parking brake firmly and select forward highest. Apply the footbrake and, with the throttle fully open, check engine speed which should be 2300±50rpm.

※ **Do not apply the clutch cut off switch during this test as the clutch disconnect will be activated and a false reading will result.**

Repeat the above test whilst simultaneously operating the loader arm raise service to blow off the main relief valve.
Engine speed should be 2300±50rpm.

If engine speeds are appreciably below the stated figures, the engine is losing power and should be serviced or overhauled. Where the engine speed does not change significantly from the governed speed, check the transmission for clutch slippage or internal leakage.

5) PUMP FLOW TEST

(1) Make test connections as shown. Connect tachometer/temperature reader.

(2) Heat transmission oil up to test specifications.(See transmission oil warm-up procedure, this group)

(3) Run engine at test specification(25lpm at 1000rpm). Measure flow. Flow meter loading valve must be open.

※ **Before starting engine, check that flow meter loading valve is open.**
Pump can be damaged if engine is started with loading valve closed.