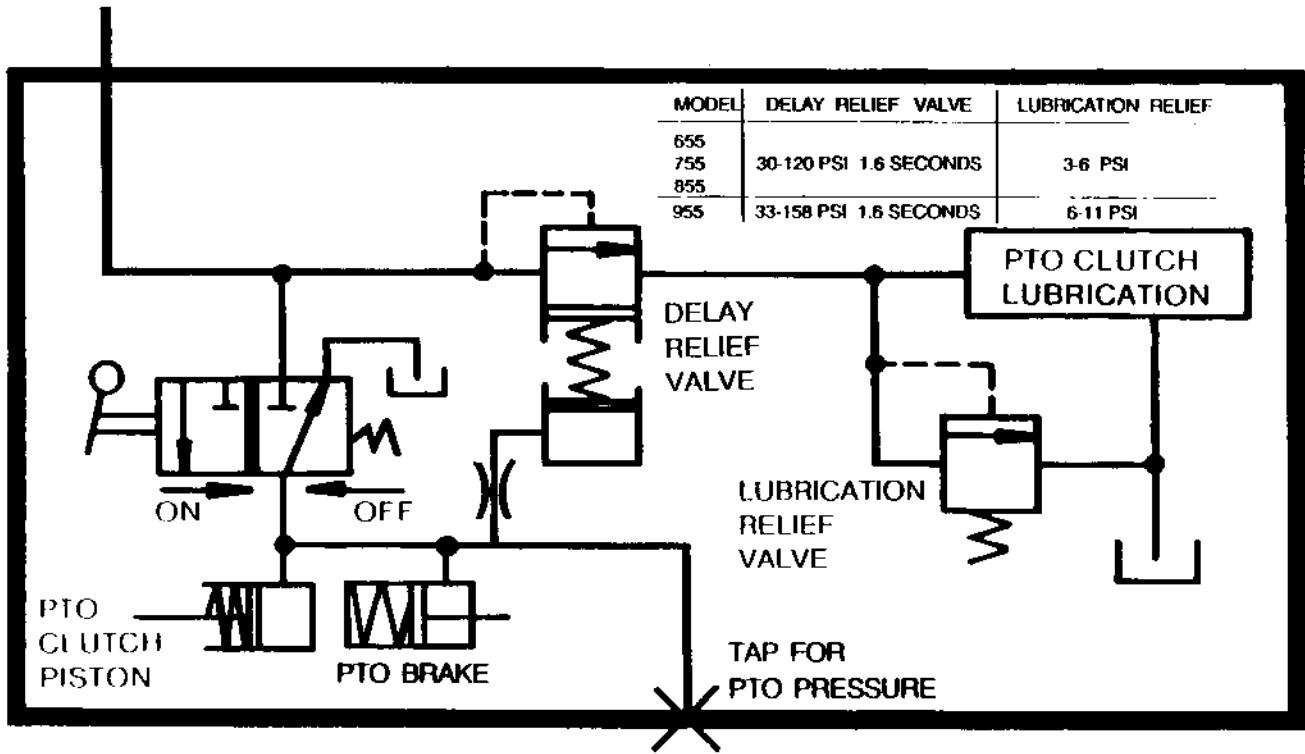


**PTO SYSTEM OPERATION**



Off Position Shown

The PTO system includes a PTO clutch, PTO brake, delay relief valve, clutch control valve, lubrication relief valve and lubrication circuit.

The PTO clutch control valve is a two position control valve that directs fluid to the clutch/brake circuit when it is moved to the ON position. In the OFF position, it dumps fluid from the clutch/brake circuit back to sump.

When the PTO is OFF, hydraulic pressure shifts the delay relief to direct inlet pressure to the lubrication circuit. At the same time fluid in the clutch/brake circuit is channeled to the sump to release the clutch and apply the brake.

When the PTO is ON, hydraulic fluid is channeled to the back side of the delay relief. Fluid is not directed to the clutch/brake circuit until pressure builds up to specified reading and shifts the delay relief valve to close off inlet pressure. This pressure is channeled to the clutch/brake circuit to apply the clutch and release the brake.

The clutch brake lubrication system relief valve provides specified pressured lubrication oil to the clutch and brake.

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