

Frequency Adjustment

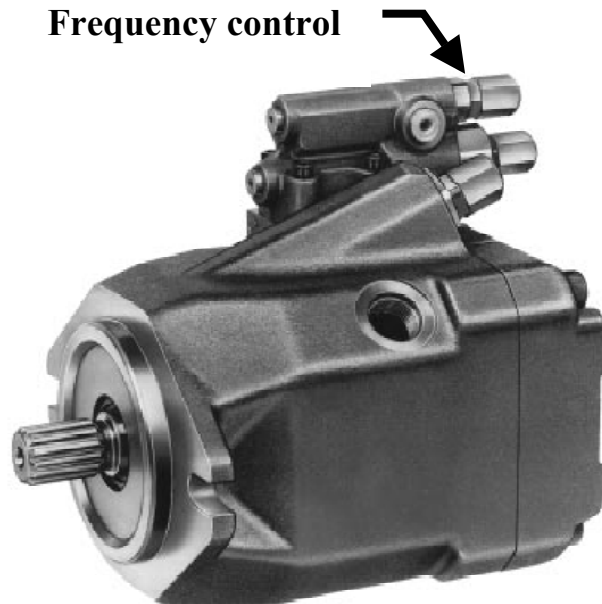
Verify output voltage and frequency. At no load the voltage output should be $120 \text{ VAC} \pm 3.6 \text{ VAC}$ and the frequency should be $60 \text{ Hz} \pm 2 \text{ Hz}$.

If either of these parameters is far off target do the following:

- a) Verify that engine idle and PTO ratio are driving the pump at the required minimum value.
- b) Run the engine to about 1500 RPM and check voltage and frequency readings.
- c) If both ends of the engine speed range produce voltage and frequency readings that are out of the specified range, then the frequency control on the pump compensator must be adjusted as described below.

Frequency Control Adjustment

- (1) Loosen the jam nut on the frequency control. You will need a 17 mm socket wrench. The control screw requires a 3 mm hex wrench for making the flow adjustments.



- (2) Run the system at full load and adjust the compensator setting by turning the control shaft clockwise or counter clockwise to increase or decrease the frequency as needed. At full load the frequency should be at 58.5 – 60 Hz.

NOTE: Make small adjustments. The control is sensitive and was properly set before the system was shipped. If large adjustments are required, something is wrong. Call Hart-A-Gen (832-467-4339) before proceeding.

- (3) Tighten the jam nut.
- (4) Remove the load and check the voltage at no load. The frequency should be at 61 – 62 Hz for ideal setting.