

### 3KW Governing System Setup

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1. Loosen lock nut on bottom of actuator linkage rod, adjust spherical nut so that one thread shows on bottom of spherical nut. Tighten the lock nut against spherical nut.
2. Make sure the actuator lever reaches its stop just prior to the engine fuel lever reaching its stop. (Adjust by turning actuator linkage rod in or out of ball joint at top of rod.)
3. With the set running at no load adjust the speed potentiometer on the governor control to obtain a PMA voltage of approximately 176 VAC, or approximately 254 Hz (3050 rpm). Adjust the actuator linkage rod length so that the gap between the magnet and the target is 5/16". Do not attempt to adjust magnet, this is a factory setting.
4. Turn the stability and gain potentiometers on the governor control all the way counter clockwise.
5. Turn the stability potentiometer on the governor control clockwise until the engine becomes unstable, then counterclockwise until it stabilizes, and then a little further counterclockwise.
6. Turn the gain potentiometer on the governor control clockwise until the engine becomes unstable, then counterclockwise until it stabilizes, and then a little further counterclockwise.
7. Apply rated load and adjust the boost potentiometer on the governor control to obtain a PMA voltage of approximately 194 VAC, or approximately 288 Hz (3450 rpm).
8. Check the no load to rated load and rated load to no load transients by observing the actuator lever. If the magnet grabs the target during the transients, reduce the gain.
9. When applying rated load the engine speed should slowly increase without a large initial drop.
10. When removing load engine speed should decrease without a large initial surge.
11. At no load lift the actuator lever and lock it in the Manual Start position. The PMA voltage should be approximately 219 VAC, or approximately 317 Hz (3800 rpm).

**NOTE: All PMA voltage / frequency readings are taken from Governor Control Unit (A5) terminals A and B.**

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