



Technical Service Support Bulletin

Subject: Calibrating Engine Speed & Frequency
Product: Generators with Electronic Governing
Model(s): DCA-180SSK2, DCA-220SSK
DCA-300SSK, DCA-400SSK
Serial #: All with Electronic Governing
Bulletin: 2000-3

Instructions:



Figure 1



Figure 2

- 1) Set Engine Speed Switch to the Low Speed position. **See Figure 2** (Located on Main Control Panel).
- 2) Start the engine. Allow engine to warm up, approximately two minutes.
- 3) Set Engine Speed Switch to the High Speed position (60Hz/1800RPM). **See Figure 1** (Located on Control Panel).
- 4) Adjust the High Idle Speed Rheostat until the engine is at operating speed. To adjust the operating speed, turn the rheostat clockwise to increase the engine speed, and counter-clockwise to decrease the engine speed. **See Figure 2** (Located on backside of Control Panel).



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Issue Date: May 2000
Revised Date:

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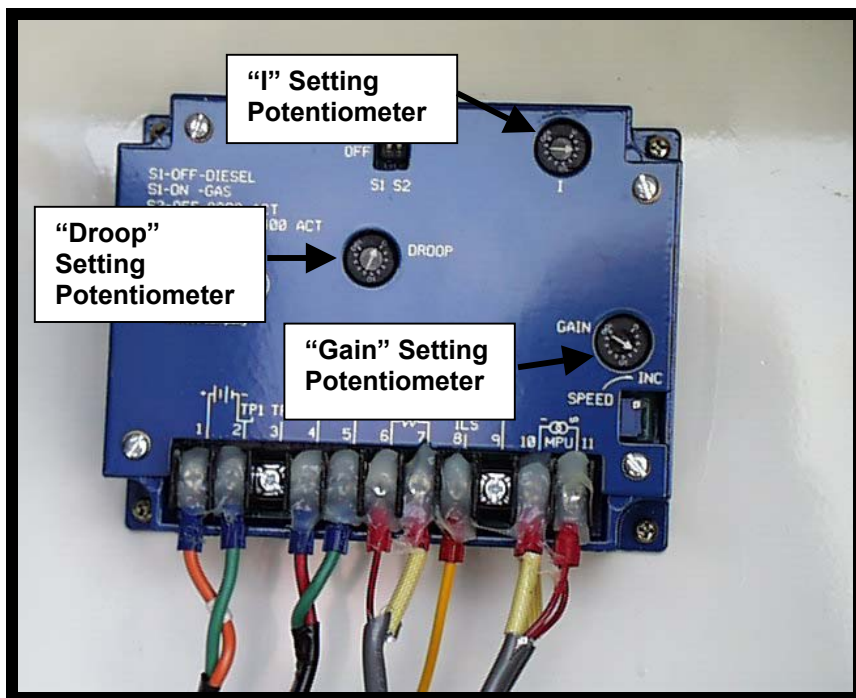


Figure 3

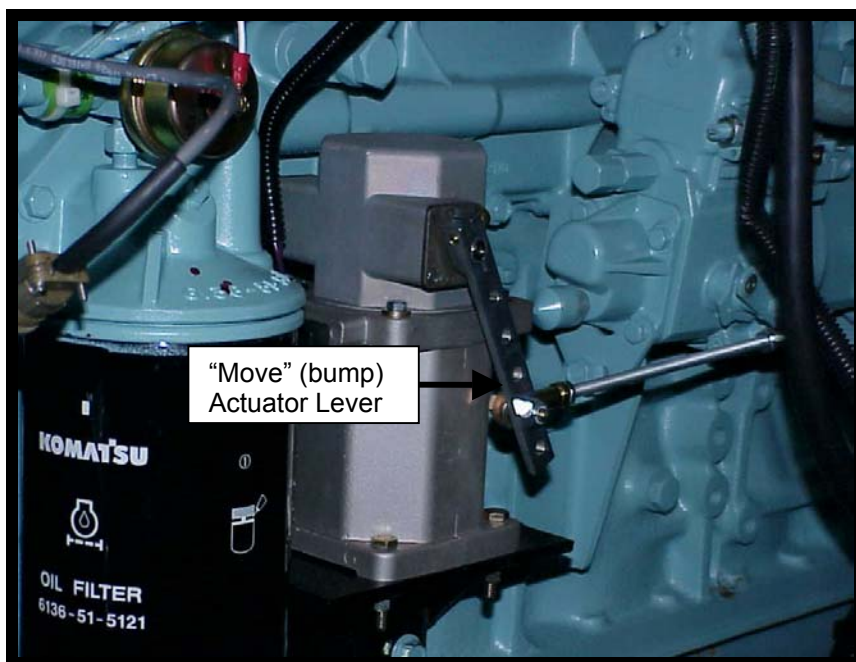


Figure 4

- 5) If the engine speed is unstable, slowly turn the "Gain" adjustment clockwise until the actuator lever oscillates. **See Figure 3** (Located on right hand side of unit, when facing the Control Panel, inside Generator Compartment). Next, slowly reduce the "Gain" adjustment until the actuator lever is stable. Now move (bump) the actuator lever by hand either forward or reverse in order to "upset" the engine speed. **See Figure 4** (DCA-180SSK2 located on right hand side of unit, DCA-220SSK, DCA-300SSK, DCA-400SSK located on the left side when facing the Main Control Panel, inside Engine Compartment). The Actuator Linkage is connected to the Fuel Injection Pump. If the lever oscillates 3 to 5 times and then stops, the setting is correct.

- 6) Now adjust the "I" setting. **See Figure 3** (Located on right hand side of unit, when facing the Control Panel, inside Generator Compartment). This procedure is the same as the "Gain" adjustment. Follow the same steps as outlined in procedure four.
- 7) Unit is automatically calibrated.

Note:

The "Droop" setting is always left in the zero or minimum setting.

ALL ADJUSTMENTS MUST BE MADE BY A QUALIFIED ELECTRICAL TECHNICIAN. MQ POWER IS NOT RESPONSIBLE FOR ANY DAMAGES TO EQUIPMENT AND/OR COMPONENTS RESULTANT FROM UNQUALIFIED PERSONNEL.