

Electronic Frequency Control for Ford Superduty

This bulletin is for the ELECTRONIC GENERATOR CONTROL SYSTEM.

The system is designed to run the generator at 60 Hz regardless of ambient temperature, electrical load or engine RPM. (A minimum idle RPM may be required.)

The generator control is attained by the use of an electronic proportional control valve incorporated with manual over-ride adjustment in a Priority Valve Manifold. This manifold is located on the generator tray.

After initial installation or hydraulic component replacement, the system will require the air to be purged from the system by using the manual adjustment.

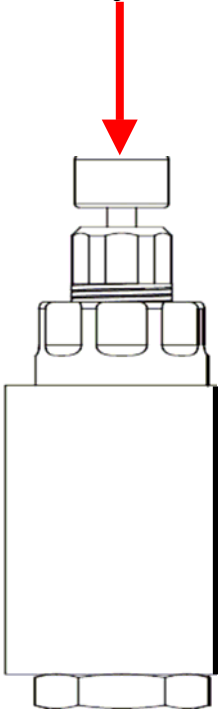
This adjustment can also be used for emergency generator control by manually setting the frequency at 61 Hz.

There are no pump or valve settings to be made with this system. All adjustments have been made at the Hart-A-Gen facility before shipping.

Purging the air after installation or component replacement

- 1) **Disconnect the plug at the proportional valve coil.** Engage the PTO at minimum rpm. On top of the coil of the **proportional valve** there is a manual screw adjustment. **DO NOT ADJUST RELIEF VALVE!**
- 2) Monitoring the frequency, slowly screw in the adjustment until the frequency is 35 Hz. Run the generator about 5 minutes to begin air purge from the system.
- 3) Monitoring the frequency, slowly screw in the adjustment until the frequency is 60 Hz. Run the generator at least 10 minutes to purge all air from the system.
- 4) After purging, screw out the manual control and disengage the PTO. Connect the plug at the coil and engage the PTO. The generator will start in electronic control mode.

Manual
Adjust



Manual Adjustment Screw

Emergency Manual Frequency Control Adjustment

In case of an emergency the generator can be run in manual mode, if the electronic system has failed. Ensure it is not a hydraulic failure.

- 1) **Disconnect the plug at the proportional valve coil.** Engage the PTO. On top of the coil of the **proportional valve** there is a **manual screw adjustment.** **DO NOT ADJUST RELIEF VALVE!**
- 2) Monitoring the frequency, slowly screw in the adjustment until the frequency is 61 Hz. The generator is now in manual mode.
- 3) Trouble shoot the system as soon as possible.

If the generator will not operate in manual mode something is wrong. Call Hart-A-Gen (832-467-4339) before proceeding.

Pressure relief valve. Factory set.

DO NOT ADJUST!

