

**COMMON ISSUES**  
**OR**  
**SERVICE QUESTIONS**

- When Gen is losing Power or fails to produce power.
  - If your gen set has a Deep-Sea Electronics control module 3110.

## TROUBLESHOOT #1



## Set Fails To Produce Power

1. Most of the time it can be traced back to the over current relay (If applicable: It could also be a fuse)
2. To Reset you will need access to a compartment under the controller that usually houses the relay or the fuse.
  - a. After resetting or replacing fuse/ relay, place panel door to correct position after you work on it.
  - b. This fuse / relay may trip if you change the voltage output from 120/208/240/480 Depending on your Unit.

3. In some cases, depending on the Equipment, you could have a lost of power if safety braker is engaged.

a. This breaker is located on or near the main access panel of your terminal loads (logs).

b. This breaker is usually tripped when the access panel is not correctly secured.

➤ What happens when Gen Set is not pulling a full load.

1. Most of the issues are fuel related.

a. Check for water in water/fuel separator, Drain if need.

b. Also, if port supported or if available drain water from last filter on fuel system.

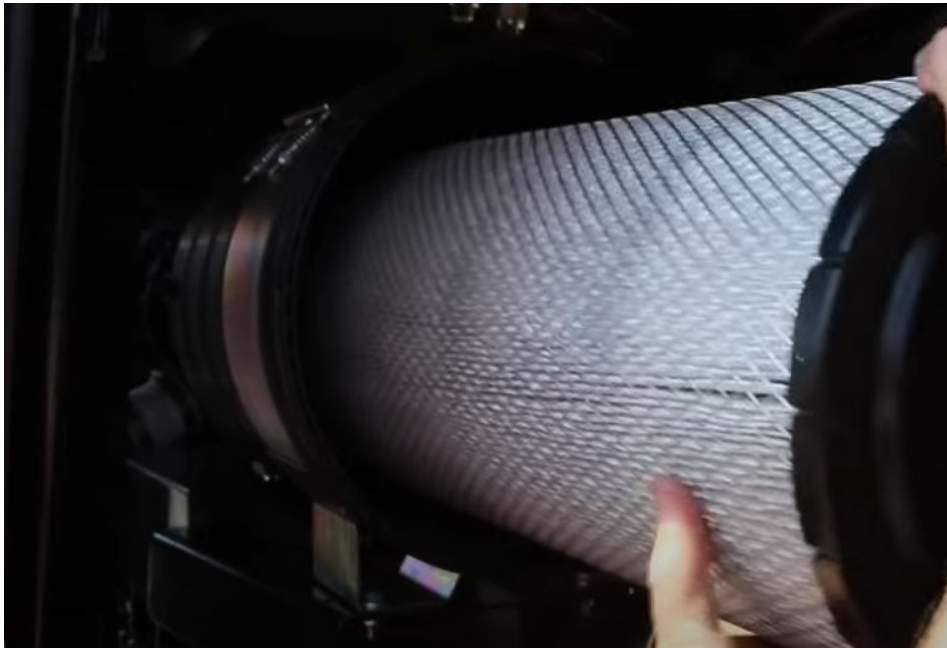
c. Check fuel lines for proper connection or for restrictions.

d. You should also check if any external outside fuel sources are connected.

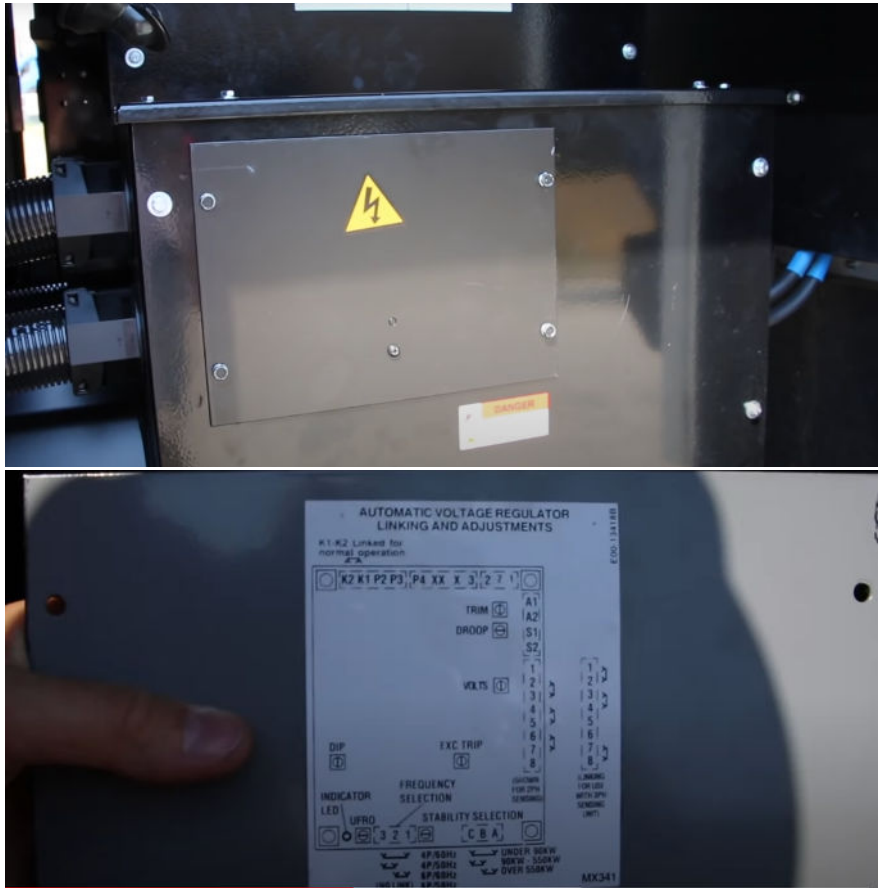
e. Check all hoses to make sure they are all connected and no leaks are apparent. (Please check Around Supercharger).



- f. Another reason would be the air filter being obstructed or clogged.



- Generator set shuts down. Under Voltage Generator shut down.
  - Check whether fuel filter is clogged and that there are no restrictions on the fuel lines.
  
- Generator Voltage is too low, but unit is not turning off.
  - Check to see if voltage can be adjusted with the potentiometer.
    - If no change happens with adjustment, Check the actual voltage output on the Terminal logs.
    - If at the Terminal the voltage is low check the voltage regulator board or AVR (Automatic Voltage Regulator.)
    - IF AVR or voltage regulator OHMS check out, the actual potentiometer may be bad.
      - Voltage regulator is usually located on the back or bottom of the control panel. See pictures for example.



- When Generator turns on but is not generating any voltage at all.
  - If applicable check the safety breaker.
  - Check any of the voltage Fuses.
    - a. These are usually located inside or behind the main control panel.
  
- Unit is Bogging Down or blowing black smoke or both. (All of the following could manifest in a condition called WET STACKING).
  - Check for water in fuel Filter.
  - Check fuel quality or state.
  - Check air filter restriction.
  - Check for fuel supply restriction.
  - Check Inlet coolant connection.
  - Check If Generator is running under load (Less than 60 %).
  - Check if Generator sat with fuel for a long time.
  - Check if Generator has run for a long period of time with no load.

- Check for accumulation of moisture, or carbon particles in the exhaust.
- Check if Generator is running under it's designed operating temperature.
- Check air to fuel ratio.
- Check if there is a history of Generator running constantly out of fuel or low on fuel.