The following are some common e-Codes from the Generac Evolution controller that you may see if there is a problem. There is a short description next to each one explaining a possible problem and a solution.  
  
  
Legend:  
Display reads  
Alarm/Warning  
e-Code Value  
  
  
Overcrank ALARM 1100   
Condition - Engine cranks but will not start.  
Unit turns over but will not start. Controller is receiving signal on Wire 18.   
  
Overspeed ALARM 1200  
Prolonged  
Over 72 Hz for 3 seconds.  
Possible cause: Stepper motor/mixer body assembly issue.  
  
Overspeed ALARM 1205  
Instantaneous  
Over 75Hz for 0.1 second (100 milliseconds).   
Possible cause: Stepper motor/mixer body assembly issue.  
  
Low Oil Pressure ALARM 1300   
Occurred while running.  
The default extended alarm for low oil pressure.  
Check oil level and pressure.   
  
High Temperature ALARM 1400  
Condition - Air Flow Impeded / Flow Issue  
Check the inlet/outlet for debris.  
  
RPM Sensor ALARM 1501  
Twin Cylinder+Running  
Twin Cylinder Running faults to RPM Sensor Loss.   
Possible Causes: air pocket in fuel line, dirty fuel, missing ignition pulse (loss of one of the primary coils).  
  
RPM Sensor ALARM 1505  
Twin Cylinder+Cranking  
Twin Cylinder Cranking faults to RPM sensor loss   
Possible Cause: starter motor issue, missing ignition pulse (loss of one of the primary coils).  
  
RPM Sensor ALARM 1511  
Single Cylinder+Running  
Single Cylinder Running with Low Fuel Pressure faults to RPM sensor loss  
Possible Causes: air pocket in fuel line, dirty fuel.  
  
RPM Sensor ALARM 1515  
Single Cylinder+Cranking  
Single Cylinder Cranking faults to RPM sensor loss  
Possible Cause: starter motor issue.  
  
Underspeed ALARM 1600  
Condition - Unit is Overloaded  
Unit is Overloaded slowing engine speed, fuel supply low or throttle control problem.  
  
Overvoltage ALARM 1800  
Prolonged  
Over-Voltage   
  
Undervoltage ALARM 1900  
Prolonged  
Under-Voltage  
Undervoltage due to loss of voltage for some time (10+ seconds).  
  
Undervoltage ALARM 1901  
Instantaneous  
Undervoltage due to sudden loss of voltage.  
  
Undervoltage ALARM 1902  
Both Zero Crosses missing  
Undervoltage due to faulty excitation winding, or zero cross circuit, or circuit in  
general.  
Possible cause: loose wiring, field boost hardware failure  
  
Undervoltage ALARM 1906  
Single Zero Cross missing  
Undervoltage due to faulty excitation winding, zero cross circuit, or circuit in general.  
Possible cause: field boost hardware failure  
  
Wiring Error ALARM 2099  
Customer connection low voltage and high voltage wires are crossed.  
Check customer connection in generator  
  
Overload Remove Load ALARM 2100  
Overloaded - Default (Output Current Method)  
Unit is overloaded, one of the two CTs is detecting an overload condition. Check  
transfer switch loadshed functionality. (Change load dynamics or utilize loadshed). Remove Load  
  
Undervoltage Overload ALARM 2299  
Unit was overloaded and attempted to start with a large load connected. The unit  
can not ramp up the generator voltage to its normal target voltage value if it starts  
with a large load connected  
Remove Load  
  
Stepper Overcurrent ALARM 2399  
Current flow in stepper coil(s) above specification  
  
Fuse Problem ALARM 2400\* (\*Firmware v.1.11 and older only)  
Missing / Damaged Fuse  
The 7.5 amp Controller Fuse is missing or blown (open).  
  
Low Battery WARNING   
Condition->Battery less than 12.1 Volts for 60 seconds   
  
Battery Problem WARNING   
Condition->More than 16 Volts of battery voltage or 600 milliamperes or more of  
charge current at the end of an 18 hour charge   
  
Charger Warning WARNING   
Less than 12.5 volts of battery voltage at the end of a 18 hour charge   
  
Charger Missing AC WARNING   
AC power is missing from the battery charger input   
  
  
\*\*Additional codes FOR 8 kW Units Only\*\*  
  
Overcrank ALARM 1100  
Engine/Starter Problem  
Limiting number of cranking cycles to protect the starter motor.  
If the engine has tried to crank for 10 times unsuccessfully, this will trigger.  
  
Underspeed ALARM 1600  
Underspeed  
The engine never comes up to 3700 RPM.  
Check fuel selection and fuel supply.  
  
Overload Remove Load ALARM 2102  
Overloaded  
Unit re-cranks 5 times when load is applied, engine dies (0 RPM) and has low  
voltage (< 180V) Check for Overloaded condition on unit. Inspect stepper motor operation.  
  
Overload Remove Load ALARM 2103  
Overloaded  
Unit has run and attempted to accept load 10 times, could not accept due to overload condition.  
Check for Overloaded condition on unit

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