

Generator Failure Information Form

Items listed will cause failure of Generator:

Water (moisture) inside a Generator is caused by power washing or steam cleaning RigMaster without covering Generator vents.

Exhaust Soot Grounding is caused by running the RigMaster unit with exhaust failures for extended time, dirt inside generator, worn engine mounts transmit shock forces into Generator.

Generator

Model	BL105E	Serial #	
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Diagnosics and Measurements:

<u>Tests and Inspections:</u>	<u>Result of test or inspection:</u>
Can you pry up the Generator mount plate 1 inch?	
Generator belt in place and properly tensioned	
Reset breakers (power not needed to reset)	
Remove Generator plastic cover look for broken or loose connections	
Is corrosion present?	
Is moisture present?	
Are bearings ok?	
Is there soot from exhaust present?	
Make note of the positions of the wires on the capacitor terminals then remove them. Check volts across capacitor terminals, if it's a "+" reading, then the red test lead is on the positive terminal. There should be atleast 1.5volts, if not, re-install the wires in their original postions and "flash" the capacitor with a 12volt battery. To do this, note the correct polarity, touch wires from the battery to the capacitor terminals for 1 second.	Voltages Measured:
Disconnect leads from capacitor, check capacitance by using a meter that can measure 38uF to 42uF across capacitor terminals.	Capacitance measurements:
With the ENGINE RUNNING AND THE AIR COND. OFF, test for 120V power from the T1(red) lead to the T2(white) lead, then test from T3(brown) lead to neutral T4(blue) lead.	Voltages Measured:
If leads T1 and T3 give limited volts to breakers while under a 1500 watt load, check for 61.5 "Hertz", adjust engine idle if necessary.	What Voltage was present? What Hertz was measured? Was idle adjusted?
If "Hertz" frequency is ok,remove the neutral line wire nut and measure the voltage across T1(red) and T2(white) leads and T3(brown) and T4(blue)-should be minimum of 1.5volts, if less, capacitor may need to be "flushed". Generator normal output voltage(off load)is 130volts AC @ 61.5Hz	Measurement from Red to White? Measurement from Brown to Blue?

Resistance Charts			
<small>All figures are approxiamate values in Ohms</small>			
Gen Model	Voltage	Main Stator Per Section	Auxiliary Winding
BL105E	115 or 230	0.41	1.07

Please enter your resistance readings in the spaces below		
Wired as 115v or 220v?	Stator Windings	Aux

(Aux.winding: Test between capacitor leads)