

# TECH TIPS

Service Call:

**Engine cranks but will not start - Z8060  
Demonstrated, will also work on  
S-100/125 or Z-13570. - No fault codes  
showing in ALC 1000 LCD Display.**

Tools Needed:

Voltmeter  
Probing Pins for Duetch Connector and  
Connector on Duetz Engine

Model:

**Genie Z80/60 Shown**



## Tech Tips Safety Rules



### **Danger**

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury. Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

### **Do Not Perform Maintenance Unless:**

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this tech tip is a supplement to the service manual. Consult the appropriate service manual of your machine for safety rules and hazards.

## Step 1

Locate pin P1-03 on White J13 23 pin connector on Turntable Control Box (On all models). Install probing pin in 3rd pin down on the outside of White J13 Connector, White C21 IGN (Shown in picture). Connect ground lead of Voltmeter to a good ground, Connect positive lead to P1-03 (as shown in picture).

Go to Step 2.



## Step 2

Turn the machine to ground controls and pull out E-Stop. Push the start button. The engine should crank over. Check the voltmeter for voltage (A good signal is shown in Picture). This indicates the Genie ALC 1000 Control System is working correctly. When a good 12V signal is shown go over to the engine side (Deutz Engine is going to be shown, the ignition signal will go over to the fuel solenoid of other engines).

If no signal is shown when cranking troubleshoot the Genie ALC 1000 Control System. Call Genie Service Department at 1-800-536-1800 if assistance is needed for this procedure.

Go to step 3 if a good signal is present.



## Step 3

At the connector on the Deutz Engine put a Pin Probe in #7 and #8. (Top Left Side Pin and Bottom Left Side Pin). Connect the positive lead to the white wire and the ground probe to the brown wire in the picture as shown.



## Step 4

Check for the Ohms of the fuel coil. Set the volt/ohm meter to Ohms. The Ohms should read as shown. If the correct Ohms is not shown the fuel/run solenoid is defective.

If the correct Ohms is shown proceed to step 5.



## Step 5

Set the volt/ohm meter to volts. Crank the engine over, the meter should read 12 Volts or a good signal to the fuel solenoid as shown.

If the correct Ohms are shown as in step 4 and the correct voltage in Step 5 the Deutz Engine is getting the correct signal to run. Other engines will get the same voltage signal to their fuel solenoid to run correctly. The Ohms on other engines may vary.

Go to Step 6.

On Z8060's and Z13570's there is a relay CR28 in the system. If you are getting a signal at P1-03 and not at the Deutz Connector check the CR28 relay in the Engine Junction Block located on the Engine Side of the Machine. CR28 location will be shown on the decal located on the cover.



## Step 6

If you are getting the correct signal to the fuel solenoid the problem may be in the fuel system.

Trouble shoot the fuel system to assure correct fuel is being supplied to the engine. Fuel quality, Dirty or clogged filters, or an engine problem may be the cause of the no start.

Please contact the Genie Service Department at 1-800-536-1800 if further assistance is required.