TECH TIPS

Service Call:

Platform Level Inoperative
Boom up / down Inoperative
P22 - P22R code scrolling on screen

Tools Needed:

Multimeter
7/16 wrench
2nd Service Tech

Model:

S100/105/120/125

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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.

TECH TIPS

Step 1

If the boom is elevated, turn the upper key switch to ground controls. Pull the emergency stop button on, then remove the key from the upper key switch and place it in the lower key switch. Turn the lower key switch to recovery, which is the spring loaded position all the way to the left. Once the boom is lowered, check the platform level by turning the lower key to the service bypass position. Activate the auxiliary switch and the platform level switch to level the platform. Once the platform is level turn the lower key to run position which is all the way to the right, then remove the key and place it in the upper key switch. Turn the key to the platform position. Unplug red jumper between J1 and J2 harness at ground control box

Step 2

With the upper key switched to platform controls have the second service tech depress the foot switch located in the operators platform.

Step 3

Using the positive lead from your multimeter,back probe the red wire with the black tracer in pin 6 of the plug assembly at the platform level sensor.
The black lead of the multimeter should be attached to chassis ground.
Results:
You should see 12 volts.
If 12 volts is observed proceed to Step 5.
If 12 volts was not observed proceed to Step 4.

Step 4

If 12 volts was not observed in Step 3, unplug the platform level sensor and place the negative lead from your multimeter to the brown wire in pin 4 of the plug assembly and the positive lead from your multimeter to the red wire in pin 5 of the plug assembly and check for 12 volts.

If 12 volts is present your sensor is bad.

Replace the platform level sensor. Part # 50813. After level sensor is installed, calibrate the sensor as per the procedure in the service manual.

Check machine for proper operations. If platform level function is still not working properly, continue to Step 5.

Step 5

If 12 volts was observed in Step 3 go to the red wires that were unplugged in Step 1. Check voltage on the red wire of the J1(Bottom Black) harness by touching the positive lead of the multimeter to the red wire in the plug while having the negative lead of the multimeter going to chassis ground.

Result;
You should see 12 volts.

If 12 volts was observed proceed to Step 7.
If 12 volts was not observed proceed to Step 6.

Step 6

If 12 volts was not observed in Step 5, go to the J1 (Black) connector at the bottom of the platform control box and back probe pin 7 in the plug assembly with the positive lead of the multimeter while having the negative lead of the multimeter going to chassis ground.

Result;

You should see 12 volts, if 12 volts is present your harness is damaged.

Locate damage in harness and repair or replace harness.

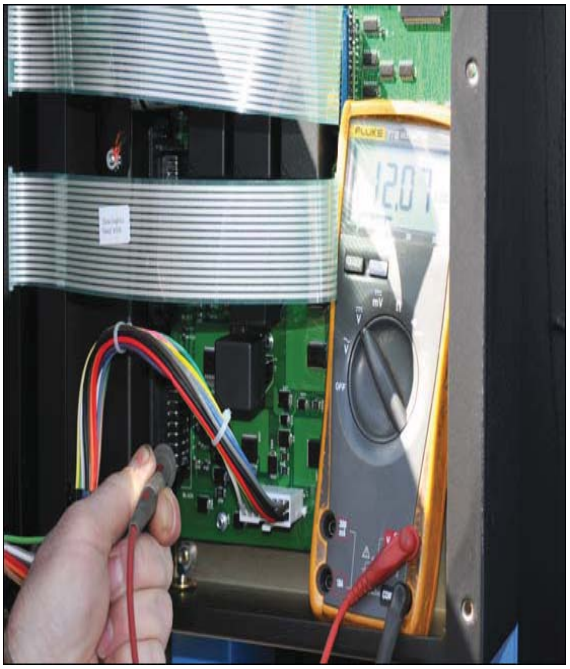
Step 7

If 12 volts was observed in Step 5, open the ground control box and place the positive lead of the multimeter to the J1 (Bottom Black) connector inside the box on the 7th pin down while having the negative lead of the multimeter going to chassis ground.

Result;

You should see 12 volts, if 12 volts is not present you have a pushed back pin or a broken crimp on the red wire located on pin 7 in the J1 (Bottom Black) harness.

Check for pin to be pushed in all the way or repair the crimp as needed.



Step 8

If 12 volts was present in Step 7, place the positive lead of the multimeter on the recovery key switch (Bottom Switch) on the light green wire while having the negative lead of the multimeter going to chassis ground.

Result;

You should see 12 volts, if 12 volts is not present you have a burnt trace in the ground box and the possibility of a harness that is shorting out when the machine is in certain positions. Replace the ground control box circuit board and locate the damage to the harness and repair or replace the harness.

With all repairs completed, check machine for proper operation.

If you are experiencing further difficulties, please call Genie Industries Technical Support for assistance. 1-800-536-1800.