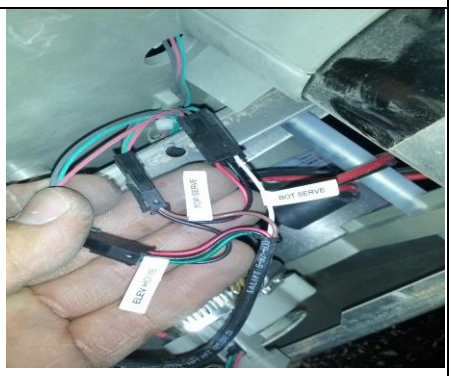
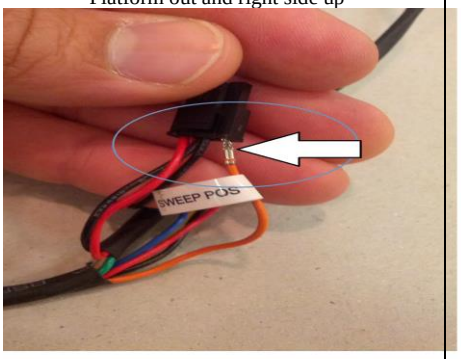
Replacing and Installing a Sensor Wire Harness

For Grand Series Machines

Step	Description		Picture
	The Machine Case has been removed and there was an inspection on the wiring hardware inside the machine and a faulty wire harness and or sensor wire was found. • Machine has a torn or damaged wire harness. • The current wire harness has a socket terminal that will no longer lock in place. • The current wire harness connector plug will no longer lock into the circuit board. • There is a damaged sensor wire. • There is a sensor wire that will no longer lock in place.		 Platform out and right side up  Wire harness socket terminal loose

Author: RR Contributors: JJ,CT Date: 12/29/2021
Revised:

Replacing and Installing a Sensor Wire Harness

Removing the Red Case

Step 1.) Unscrew the (6) Philips-head screws along the bottom of the red case where it attaches to the chassis of the machine. (2-front, 2-rear, one on each side)

Step 2.) Lift the red case off of the Chassis (Make sure to not allow the Ground Wire from the case to touch the Green control board and panel- this could fry the ground wire.) Lay the red case on its side to the left of the machine opposite of the server wheels (this is on the right hand side if you are standing behind the machine where the handle is).

Step 3.) Unscrew the 4 black control panel screws, and pull out the control panel.

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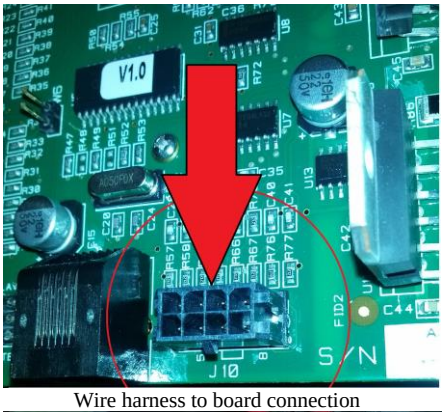
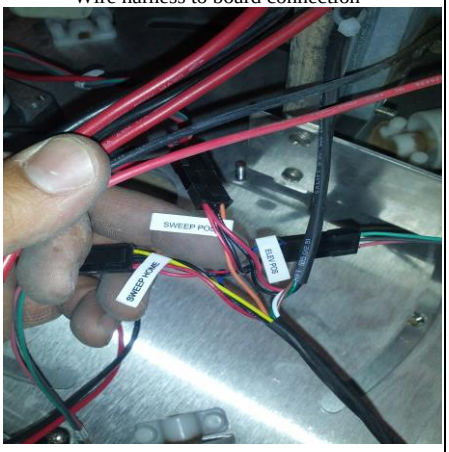
Removing the old Wire Harness and installing the new one.

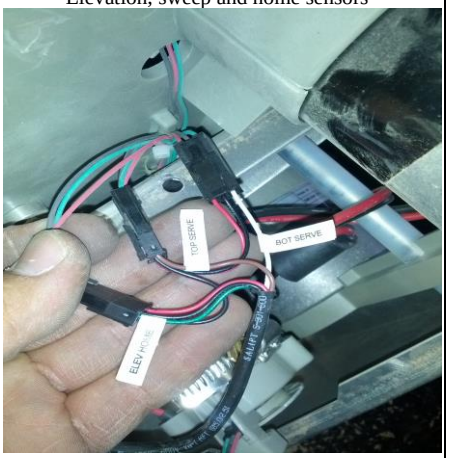
1. Disconnect the Harness from the control board (J10).
2. Cut the zip ties that are binding all the other wires together (there may be up to 4).
3. The best way to replace each sensor is to disconnect each sensor wire plug from the old harness and connect to the new harness one by one, that way the wire placement is correct.
4. Follow the harness to the wire connection that reads "Elev Pos" and switch out the old plug with that of the new harness.
5. Next find the label "Sweep Pos" and switch out the old plug with that of the new harness.
6. Next find the wire labeled "Sweep Home" and replace the old plug with that of the new harness.
7. The next set of wires are located behind the "Yoke" assembly which is right behind the server wheels. There are 3 sensor locations labeled "Elev Home", "Top Serve", and "Bott Serve". Disconnect the old harness plugs one by one as you did with the previous connectors.
8. Once you have all the sensor wires connected you may now bundle the wires starting at the center of the harness allowing for the wires to have some slack (Note: You do not want to pull the harness too hard or you might unplug a sensor connector).
9. Wrap the provided zip ties first near the "Sweep Pos" moving your way towards the center of the bundle and finally the last zip tie about 5 inches from the end of the plugs.
10. Connect the Wire Harness plug back into J10.



Wire harness to board connection



Elevation, sweep and home sensors



Top serve, Bott serve and Elev Home sensors

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Re-attaching The Case

Ensure that all wires are still connected to the electronic board.

Re-attaching The Case

Step 1.) Lift the red case onto the Chassis (Make sure to not allow the Ground Wire from the case to touch the Green control board and panel- this could fry the ground wire.) Once the case is on-top of the Chassis, take the control panel, and pull it through the hole. Lower the rest of the case until it is covering the whole Chassis of the machine.

Step 2.) Screw the (6) Philips-head screws along the bottom of the red case where it attaches to the chassis of the machine. (2-front, 2-rear, one on each side)

Step 3.) Take the 4 black control panel screws and screw them back in. (Do not over tighten).

If you have any issues, concerns or questions please contact us at (800)526-4041 ext 14. We can provide further assist you via Telephone.

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