Troubleshoot/repair hose spreader

Description

The hose spreader spreads the hose so its evenly distributed on the hose reel. For various reasons, it happens that it stops. Here we go through different errors and the solutions to these problems.

1. Start the robot. Lower the det transport wheel so the robot stands with the rear wheels in the air.
    1. Double click on the rear wheel of the robot, this will make the rear wheels lock the drive backwards, the hose reel will try to roll up the hose and the hose spreader will start to swing in its motion.
    .
2. If the hose spreader doesn't move, wait for at least 2 minutes, the hose spreader can stand still and wait at its turning point before turning. If it does not start, then the troubleshooting begins in the hose spreader box.
.
3. The lid of the box is mounted with 4 screws, one is very narrow but can be removed with a small chisel. Remove the side of the robot to make more space while you work.
.
4. Due to vibrations in the robot, the connectors may jump of its place. To fix this we put a small amount of MS Polymer on the connector to hold it in place.
.
5. Check the connector if you have power from the circuit board. Measure between pin 1 and pin 2, it should be 24 V when the spreader motor is running. When the motor is going the opposite direction, it will have 24V between pin 1 and pin 3 too. Measure the cables for the small electric motor as well, to check if the circuit board is broken.
6. 6. Once inside, it must be checked if moisture has entered the enclosure, it may happen that water enters through the plug, cable entry or entrance to the hose spreader rod.

Here you can see how water has flowed in from different entrances

From:
https://wiki.envirologic.se/ - **Envirologic Support Wiki**

Permanent link:
https://wiki.envirologic.se/doku.php/troubleshoot_repair_hose_spreader?rev=1601618137

Last update: **2020/10/01 22:55**