Issues with USB communication to pump box

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Error Message
Troubleshooting Steps

1. Use shorter cable ... Check
2. Solder jumper between ground of C2 and ground of USB interface ... Check
3. Check that all ribbon cables inside pump box are secure ... Check
4. Replace USB board with a new one ... Check
5. Verify that computer detects when pump box is plugged into one of computer USB ports ... It does.
6. Problem still not solved!
7. Next Step?

If the Comm between the PB and Computer via USB will not Work, try this fix...
Remove the USB board from the PB, by removing the two screws from the bottom of the box. On the under side of the board, solder a wire to make the connection shown below in pink. This will ground the shielding of the cable, and most likely fix the problem.

Discussion

• Try running Pump Control software on a separate computer
• Verify whether the pump control software recognizes the chip in the pump box
Issues with PTOF Panel

• Strange behavior in PTOF panel despite chopper movement looking normal
• Sometimes turning computer on and off works, but it comes back, what is the source of the problem?
• Next two slides show screenshots before and after, notice irregular PTOF airbeam signal in 2\textsuperscript{nd} slide

Run 78141 V2-2 9:23pm TD T=66
Run 78152 V2-1 9:50pm TD T=38

Servo Tab
Discussion

• Try not only turning off computer, but also unplugging it before powering back up.