Driver Station Troubleshooting Guide

This troubleshooting guide provides solutions to common Driver Station issues. Good luck at the competition!

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| Probable Cause | Solution |
| **No Robot Communication** |  |
| Robot is not on | Turn on robot |
| Tether cable is not connected properly | Connect tether cable |
| Tether cable is not a crossover cable | Use a crossover cable as the tether cable |
| Tether cable is not plugged into Port 1 on the cRIO | Plug tether cable into Port 1 on the cRIO, not Port 2. Port 2 is for the Axis camera only. |
| Network settings are incorrect | Refer to Network Settings reference below |
| Tether cable is bad | Replace the tether cable |
| **No Robot Code** |  |
| Not given enough time to boot up | Wait a couple more seconds for the robot to finish booting up |
| No code was loaded after:   1. Reimaging cRIO 2. Getting a new cRIO | Load code |
| There are runtime errors | Fix exceptions shown in NetConsole output |
| If using LabVIEW, the project is not configured to start up when cRIO boots up | In the Project Explorer, under “Build Specifications,” right-click “FRC Robot Boot-up Deployment” and select “Set as startup”, then load code |
| **Robot does not drive properly or at all** |  |
| Robot is not enabled | Enable robot in Driver Station |
| Joysticks are not connected properly | Ensure that the joysticks and USB hub are plugged in |
| Joystick order is not correct in Driver Station software | Ensure that the joystick order in the Driver Station software’s Setup tab matches the robot code |
| One or more drive motors are inverted | Invert appropriate motors in code |
| **Robot lags** |  |
| Exceptions are being printed repeatedly | Fix exceptions shown in NetConsole output |
| There are print statements in the code | Remove or comment out all print statements in code, as they can cause significant lag |
| There are delay/sleep statements in the code | Consider alternatives to handle waiting, such as using the timestamp |
| **No Stop Button** |  |
| There is no stop button, stop button is broken, or there are no more USB ports | Disable the stop button! On the Diagnostics tab in the Driver Station software, double click on “Stop Button”. Confirm by clicking on “Yes, I’ll be careful”. Wait 20 seconds. |

# Network Settings for Driver Station

**IP address**: 10.xx.yy.5 where xx.yy is your team number (Ex. 10.6.94.5 for team 694)

**Subnet mask**: 255.0.0.0