



Driver Station Troubleshooting Guide

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

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: <ul style="list-style-type: none"> (a) Reimaging cRIO (b) 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