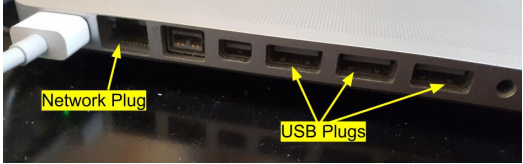


Robotics Troubleshooting

Observation	Resolution
No connection.	Check that the robot is on.
No connection.	Plug USB cable into computer and robot.
Robot is plugged into the wrong port.	<p>Sometimes students force the USB plug into the hole for the network plug. Make sure the cable is plugged into any of the USB ports</p> 
Robot "Memory Full" error.	<p>Plan A: Students use the memory manager on the computer to erase all the files. Plan B: Teacher uses the on-robot settings menu to erase Sound and Program files.</p>
Connection stops working.	<p>Turn robot off, unplug USB cable from computer and put into another USB port, turn robot on. (Works 90% of the time.) Otherwise, save the group's work and close Mindstorms. Turn robot off and then on again. Restart Mindstorms and reopen the project and try downloading again.</p>
Program busy error.	"Emergency stop" the program on the robot and try downloading again.
Robot doesn't go straight.	"It's made of Lego, not Titanium." Surface should be smooth but not slippery. Carpet is bad and so is tiled floor. Cardboard is best but robots will still wander. Allow students to program "safe" times to use the HPS (Human Positioning System) to adjust the robot's bearing.
Sensor doesn't work.	Use the port view menu to look at the numbers coming from the sensor. Be sure the sensor's port and the program port are the same.
My robot stops moving.	These are usually program problems. Check the program for loops without exits, move blocks with a speed of 0, sensor blocks without the sensor installed.
My robot is frozen.	If the Emergency stop button doesn't work take the battery out and put it back in (Hard reboot). You may have to disassemble the robot a bit to do this.
Ask robot to turn to the right but it turns to the left.	Be sure the right motor is plugged into "C" and the left motor is plugged into "B". Left and right being the robot's left and right.