

ROBOT INSPECTION TIPS FOR FIRST TEAMS

1. [Robots may participate in the practice rounds on Thursday without passing inspections.](#)
2. [Robots CAN'T compete on Friday without having passed all parts of inspection.](#)
3. [Start inspections as early as possible so you have time to fix issues and don't get stuck in the rush at the end of Thursday](#)
4. [Inspections can be done in several parts](#)
 - a. [Weighing in](#)
 - b. [Sizing](#) (make sure to put the robot on center of scale)
 - c. [Electrical/Pneumatic/mechanical](#)
5. [Get through the parts that you can as early as possible, you can come back to pass the rest.](#)
6. [Bring a copy of your parts list with prices to the inspection](#)
7. [Have students available for inspection, the inspectors will ask them the questions.](#)
8. [FIRST will release an inspection checklist before competition, go over it with the students \(mock inspection\)](#)
9. [Bring a charged battery with you as well as your controller and tether, you will be asked to power up the robot.](#)
10. Simple things teams often fail inspections for:
 - a. [Make sure battery leads](#) and all 6 gauge connections are well insulated.
 - b. Check for sharp edges by running your hand all around the robot.
 - c. Have pressure gauges to show max storage pressure of 120 psi and working pressure of 60 psi.
 - d. Be able to follow the correct size breakers from the panel to the speed controller/relay it corresponds to (LABEL each to make things much easier)
 - e. The LEDs of the robot controller must be visible.
 - f. Battery should be secure.
 - g. The 120 amp breaker should be easily accessible.
 - h. Make sure the robot does not pose an entanglement threat.