

# Robot Inspection Checklist

Team Number: \_\_\_\_\_ Division: \_\_\_\_\_

Inspection Item	Rule #
<input type="checkbox"/> Team is only competing with ONE robot. They have no spare or replacement robots. Multiples of subsystem 3 are permitted.	<R1>
<input type="checkbox"/> Team testifies that the designing, building, and programming of the robot was done only by the students on the team.	<R2>
<input type="checkbox"/> Robot displays at least one (1) easily visible VEX IQ Competition license plate (or a custom plate of similar size) with a clearly visible and legible team number.	<R9>
<input type="checkbox"/> The Robot fits within the starting size of 11" x 20" x 15" <b>in all potential starting configurations</b> and does not expand beyond 11" x 20" during the match.	<R4>, <SG2>
<input type="checkbox"/> Robot is constructed ONLY from official <b>robot</b> components from the VEX IQ product line and the mechanical/structural components from the VEX Robotics by HEXBUG product line. All rubber bands must be identical in length and thickness to those included in the VEX IQ product line. 1/8 <sup>th</sup> metal shafts from the VEX V5 product line are legal.	<R6> <R7>
<input type="checkbox"/> Any robot decorations are nonfunctional and do not affect performance.	<R8>
<input type="checkbox"/> Robot uses no more than six (6) VEX IQ Smart Motors. Additional motors cannot be used on the robot, even motors that are not connected.	<R12>
<input type="checkbox"/> Robot uses no more than one (1) VEX IQ battery pack or six (6) AA batteries. Additional batteries cannot be used, even batteries that are not connected.	<R13>
<input type="checkbox"/> No Robot parts have been modified with the exception of cutting <b>metal</b> VEX IQ, metal VEX V5 shafts, or VEX IQ pneumatic tubing to any custom length.	<R15>
<input type="checkbox"/> Robot does not have components that are intentionally detachable, pose an unnecessary risk of entanglement, or pose a risk of potential damage to the field elements or other robots.	<R5> <G6> <G7>
<input type="checkbox"/> Robot installed VEX IQ Brain can communicate with the VEX IQ Controller and is properly paired using VEX IQ 900 MHz radio, VEX IQ 2.4 GHz radio, or VEX IQ Smart Radio.	<R11>
<input type="checkbox"/> VEX IQ firmware (VEXos) is up to date. <a href="http://www.vexiq.com/vexos">www.vexiq.com/vexos</a>	<R14>
<input type="checkbox"/> Robot uses a maximum of two (2) VEX IQ pneumatic air tanks, one (1) VEX IQ Pneumatic Pump, and no additional pneumatic parts that are not included in the VEX IQ Pneumatics Kit. No other elements are used for the purposes of storing or generating air pressure, and pneumatic cylinders and tubing are only used as part of a pneumatic system.	<R16>

## Team Verification

**Initial**

<input type="checkbox"/> Team has fully read and understands the game manual and Q&As, including but not limited to G1, G2, G3, G4, G11, R1, R2, and T1.	
<input type="checkbox"/> Team and coach have fully read and understand the Code of Conduct and Student-Centered Policy.	

**Final Inspection**    Pass

*(Circle when passed)*

**Inspector Signature:** \_\_\_\_\_

*Student team member accepts these Inspection results and certifies that this robot was designed, built, and programmed by qualified students on this team with little to no assistance from the adult mentor(s):*

**Team Member Signature:** \_\_\_\_\_

**Coach Signature:** \_\_\_\_\_