

Robot Inspection Checklist

Team Number: _____ Division: _____

Team Verification

Initial

<input type="checkbox"/> Team testifies that the designing, building, and programming of the robot was done only by the students on the team.	
<input type="checkbox"/> Team has fully read and understands the game manual and Q&As, including but not limited to G1-G4, R1-R4, T1, & T3.	
<input type="checkbox"/> Team and coach have fully read and understand the Code of Conduct and Student-Centered Policy.	
<input type="checkbox"/> Coach and team adults have fully read and understand the Adult Behavior Guidelines.	
<input type="checkbox"/> Coach and team adults understand that an adult must be present for the full duration of the event, per rule S2.	

Size Inspection

<input type="checkbox"/> The Robot fits within the starting size of 11" x 20" x 15" (279.4mm x 508mm x 381.0mm) in all potential starting configurations.	<R5>
<input type="checkbox"/> Robot will not expand beyond a horizontal size of 11" x 20" during the match.	<SG2>

Overall Inspection

<input type="checkbox"/> Team is only competing with ONE robot. They have no spare or replacement robots. Multiples of subsystem 3 (manipulators) are permitted.	<R1>
<input type="checkbox"/> Robot displays exactly two (2) easily visible VEX IQ Competition license plates (or paper versions of similar size) on two opposing sides, each with a clearly visible and legible team number.	<R6>
<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.	<GG8-9> <R15>

Electronics Inspection

<input type="checkbox"/> Robot has only (1) VEX IQ Robot Brain, one (1) Robot Radio, and one (1) VEX IQ Controller.	<R8>
<input type="checkbox"/> The VEX IQ Brain can communicate with the VEX IQ Controller and is properly paired using a VEX IQ 900 MHz radio, VEX IQ 2.4 GHz radio, or VEX IQ Smart Radio.	<R8> <R13>
<input type="checkbox"/> Robot Brain has the latest firmware listed on https://link.vex.com/firmware .	<R10>
<input type="checkbox"/> Robot uses no more than six (6) VEX IQ Smart Motors. No additional motors are on the robot, even motors that are not connected.	<R11>
<input type="checkbox"/> Robot uses no more than one (1) VEX IQ battery pack or six (6) AA batteries. No additional batteries are on the robot, even batteries that are not connected.	<R12>
<input type="checkbox"/> No electronic components have been modified, other than by adding non-functional decorations. Attachments that assist Drivers in holding or manipulating buttons / joysticks on the VEX IQ Controller are permitted if the controller isn't modified.	<R13> <R19>
<input type="checkbox"/> The Robot does not include any Robot Brains, microcontrollers, or other electronic components from outside of the VEX IQ product line. No electronics from the HEXBUG, VEX GO, VEX EXP, VEX V5, VEX 123, or VEXpro product lines are used on the robot.	<R15>

Pneumatics Inspection

<input type="checkbox"/> Robot uses a maximum of two (2) VEX IQ pneumatic air tanks.	<R18>
<input type="checkbox"/> Robot uses a maximum of one (1) VEX IQ pneumatic pump.	<R18>
<input type="checkbox"/> Robot does not include any pneumatic parts that are not included in the VEX IQ pneumatics kit. All pneumatic tubing is the official VEX IQ blue tubing.	<R18>
<input type="checkbox"/> 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.	<R18>

Detailed Components Inspection

<input type="checkbox"/> Robot only uses VEX products that are intended for use as a robot component, and doesn't use any VEX packaging.	<R14c>
<input type="checkbox"/> VEX IQ Smart Cables aren't used for purposes other than connecting legal electronic devices to the VEX IQ Robot Brain.	<R14f>
<input type="checkbox"/> No grease, oil, graphite, and/or any other lubricant or plastic additive is used on the robot.	<R15c>
<input type="checkbox"/> No tape (or other material that adheres to or changes a legal part) is used on the robot, other than as part of a legal non-functional decoration.	<R15d>
<input type="checkbox"/> No parts are from the VEX 123, VEX CTE, VEX EXP, Cortex, or VEXpro product lines. VEX V5 components are only used if they are cross listed for use in the VEX IQ competition.	<R15e>
<input type="checkbox"/> If components from the HEXBUG or VEX GO product lines are used, they're mechanical/structural only, and not electrical.	<R15f> <R16d-e>
<input type="checkbox"/> No 3D printed components or decorations are used on the robot	<R15h>
<input type="checkbox"/> Rubber bands match the VEX IQ standard parts.	<R16a>
<input type="checkbox"/> No parts have been modified (other than cutting pneumatic tubing or metal shafts to custom lengths, or bending plastic sheets)	<R19>
<input type="checkbox"/> ALL other robot components are OFFICIAL VEX IQ components as sold on VEXrobotics.com, listed as discontinued but legal, or non-functional decorations that don't mimic field objects.	<R14> <R16> <R17>

Sensors

Y/N

<input type="checkbox"/> Does your robot use any sensors that are dependent on the quality and/or consistency of field lighting (e.g., optical sensor or 1 st gen color sensor)?	
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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: _____