



Robot Inspection Checklist



Team Number: _____ Division: _____ Robot: ____ of ____

Size Inspection

<input type="checkbox"/> Robot fits within starting size restrictions (18" x 18" x 18" or 15" x 15" x 15"). Team ID Plates must be installed for sizing inspection.	<VUR1>
<input type="checkbox"/> All vertical Robot extensions or combinations of extensions that will expand above 18" before Endgame fit within a single vertical cylinder 2" in diameter and are below 24".	<SG5>

Overall Inspection

<input type="checkbox"/> Robot displays colored VEX Team Identification Number on at least two (2) opposing sides.	<R24>
<input type="checkbox"/> Robot does NOT contain any components which will be intentionally detached on the playing field.	<G5>
<input type="checkbox"/> Robot does NOT contain any components that could damage the playing field or other robots.	<R4>
<input type="checkbox"/> Robot does NOT contain any sharp edges or corners.	<R4>
<input type="checkbox"/> Robot poses NO obvious unnecessary risk of entanglement.	<R4>
<input type="checkbox"/> Robot Brain power button is accessible without moving or lifting the robot.	<R23>
<input type="checkbox"/> Team testifies that the designing, building, and programming of the robot was done only by the students on the team.	<R2>, <G2>, <G6>

Note: If an event uses the Smart Field Control System, the latest firmware must be installed and the team number/letter (no spaces) must be on the brain.

VEX Parts Inspection

<input type="checkbox"/> ALL robot components (except sensors or electronics) are (or are IDENTICAL to) OFFICIAL VEXpro, VEX EDR, and VEX IQ products or listed as an exception below. <ul style="list-style-type: none"> ▪ Robot can use an unlimited amount of non-shattering plastic ▪ Robot can use an unlimited amount of composite materials (G10, FR-4 or carbon fiber) for fabrication ▪ Robot can use an unlimited amount of plastic 3D printed parts ▪ Robot can use an unlimited amount of steel, aluminum, brass, and/or bronze for fabrication ▪ Robot can use an unlimited amount of rope/string, with a thickness/diameter between 1/8" (3.175mm) and 1/4" (6.35mm) ▪ Any grease is used only in moderation on components that do not contact the field, objects ▪ Robots can use commercially available springs. ▪ Robots can use any commercially available fastener. ▪ Fabrication techniques such as welding, brazing, casting, forging, rolling, tempering, or gluing is permitted ▪ Any commercially available pneumatic components that are rated at least 100 psi are permitted and the compressed air contained inside a pneumatic sub-system is only being used to actuate legal pneumatic devices. 	<R6>, <R7>, <R8>, <VUR1>, <VUR3> Through <VUR7> <VUR12>
<input type="checkbox"/> Robot does not use commercial, prefabricated parts that are not part of the VEX line.	<VUR4> <VUR5>
<input type="checkbox"/> Robot does not use VEXpro electronics that are specifically listed as being banned.	<VUR2>
<input type="checkbox"/> Robot does not use VEX products not intended for use as a robot component or any VEX packaging.	<R6>
<input type="checkbox"/> ALL components on the robot NOT meeting VEX U inspection criteria are NON-FUNCTIONAL decorations.	<R12>
<input type="checkbox"/> Robot has only one (1) VEX V5 Robot Brain and no additional microcontrollers.	<VUR8>
<input type="checkbox"/> Robot must use one (1) V5 Robot Radio. No other types of wireless communication protocols permitted.	<VUR8>
<input type="checkbox"/> No radio communication is permitted between robots.	<VUR11>
<input type="checkbox"/> Robot uses one (1) V5 Robot Battery Li-Ion 1100mAh as the primary power source.	<VUR10>
<input type="checkbox"/> Sensors & electronics MUST be connected to the V5 Robot Brain via any of the externally accessible ports. They cannot directly electrically interface with the VEX motors.	<VUR10>
<input type="checkbox"/> No more than one (1) additional lithium ion, lithium iron or nickel metal hydride battery may be used solely for powering additional sensors and electronics. Only a V5 battery can power the V5 brain.	<VUR10>
<input type="checkbox"/> Robot is not controlled by more than two (2) V5 Controllers.	<R19>
<input type="checkbox"/> NO VEX electrical or pneumatic components have been modified from their original state.	<R20>

Final Inspection: Pass **Inspector Signature:** _____
(Circle when passed)

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: _____