

Robot Inspection Checklist



Team Number: _____ Robot # _____ of _____

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, R2, R28, T1, & T3.	
<input type="checkbox"/> Team and coach have fully read and understand the Code of Conduct and Student-Centered Policy.	

Size Inspection

<input type="checkbox"/> Robot fits within starting size restrictions (24"/609.6mm x 24" x 24" or 15"/381mm x 15" x 15") and horizontal expansion limit (24"/914.4mm maximum in a single direction). Robot License Plates must be installed for sizing inspection.	<VUR1>
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Overall Inspection

<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.	<R6> <G6>
<input type="checkbox"/> Robot has colored Robot License Plates mounted on at least two (2) opposing sides, with only one (1) color visible and the team number displayed legibly in white text.	<R10>

Electronics Inspection

<input type="checkbox"/> Robot Brain has the latest firmware listed on VEX.com/firmware. If an event uses the Smart Field Control System, the robot brain must be named with the team number & letter (with no spaces).	<R15>
<input type="checkbox"/> No VEX electrical components have been modified from their original state.	<R15>
<input type="checkbox"/> Robot Brain power button is accessible without moving or lifting the robot.	<R26>
<input type="checkbox"/> Robot has only (1) VEX V5 Robot Brain and no additional microcontrollers.	<VUR10>
<input type="checkbox"/> Robot has one or two VEX radios. Robot utilizes the VEXnet wireless communication system and no other wireless communication during matches.	<VUR10>
<input type="checkbox"/> Robot uses only unmodified V5 Smart Motors and/or EXP Smart Motors. No other motors, servos, or electronic actuators are used on the Robot.	<VUR11>
<input type="checkbox"/> Robot uses one (1) V5 Robot Battery and no other power sources to power the Brain.	<VUR12>
<input type="checkbox"/> Additional sensors and electronics are connected to the V5 Robot Brain via unmodified, externally accessible ports; none directly electrically interface with VEX motors and/or solenoid.	<VUR12>
<input type="checkbox"/> Power to additional sensors and electronics (if used) is provided by a lithium ion, lithium iron or nickel metal hydride battery pack that operates at a maximum of 12 volts nominal.	<VUR12>

Pneumatics Inspection

<input type="checkbox"/> All pneumatic components are commercially available and rated for 100 psi or higher.	<VUR13>
<input type="checkbox"/> Pneumatic devices are not charged above 100 psi.	<VUR13>
<input type="checkbox"/> Components have not been modified from their original state.	<VUR13>

Detailed Components Inspection

<input type="checkbox"/> Robot does not use VEX products not intended for use as a robot component and does not use any VEX packaging.	<R7>
<input type="checkbox"/> Robot does not have excessive anti-static compound, cooling spray, grease, or lubricant that could transfer to the field or game objects; no WD40 or aerosol lubricant.	<R8b> <R8c>
<input type="checkbox"/> Robot does not use VEX electronics that are specifically listed as being banned.	<VUR2>
<input type="checkbox"/> Fabricated Parts were made from legal Raw Stock used allowed manufacturing process as demonstratable by the team.	<VUR3> <VUR4>
<input type="checkbox"/> The robot does not include unapproved materials in the form of raw stock that was post-processed by drilling, machining, or other method or removing material	<VUR5>
<input type="checkbox"/> The robot does not include unapproved materials in the form of extrusions, including non-rectangular aluminum or gear stock	<VUR5>
<input type="checkbox"/> The robot does not include unapproved materials in the form of non-VEX pre-assembled items or kits that form a single, more complex component, including gear boxes, claw mechanisms, and swerve drive modules	<VUR5>
<input type="checkbox"/> The robot does not include unapproved materials in the form of non-VEX commercial off-the-shelf items that are intended to be used with minimal modification, including wheels, gears, timing belts, and pulleys	<VUR5>
<input type="checkbox"/> The robot does not include unapproved materials in the form of materials that are intended to be cast or sintered, including resin / powdered-bed 3D printing and molten metal used for sand casting	<VUR5>
<input type="checkbox"/> No materials on the robot pose a safety or damage risk to the event, other teams, or field elements.	<VUR6>
<input type="checkbox"/> All Fabricated Parts have corresponding documentation that demonstrates the team's design and construction process for those Fabricated Parts. Minimum acceptable documentation is an engineering drawing with multiple view of the part.	<VUR7>

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: _____