



Robot Inspection Checklist (VEXnet or Crystal)

Team Number: _____

Size Inspection

<input type="checkbox"/>	Robot fits within starting size restrictions (18" x 18" x 18") does not touch walls or ceiling of the sizing box! <i>Robot should be measured WITH Robot Flag & Team ID # Plates installed.</i>	R4
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Overall Inspection

<input type="checkbox"/>	Team is only competing with ONE robot -- they have no spare or replacement robots.	R1
<input type="checkbox"/>	Robot displays VEX Team Identification Number on at least (2) opposing sides.	R18
<input type="checkbox"/>	Robot does NOT contain any components which will be intentionally detached on the playing-field.	G8
<input type="checkbox"/>	Robot does NOT contain any components that could damage the playing-field or other robots.	R3
<input type="checkbox"/>	Robot does NOT contain any sharp edges or corners.	R3
<input type="checkbox"/>	Robot poses NO obvious unnecessary risk of entanglement.	R3
<input type="checkbox"/>	Robot on/off switch is accessible & Microcontroller lights are visible without moving or lifting the robot.	R16
<input type="checkbox"/>	Robot Flag Holder is present and adequately holds the flag during normal robot operation.	R19
<input type="checkbox"/>	When installed the Robot Flag is non-functional and does not extend outside the sizing box.	R19ab

VEX Parts Inspection

<input type="checkbox"/>	ALL Robot components are (or are IDENTICAL to) OFFICIAL VEX Products as sold on VEXrobotics.com	R5 R6
<input type="checkbox"/>	Robot does not use any of the VEX products not intended for use as a robot component or any VEX packaging.	R5bc
<input type="checkbox"/>	ALL Components on the Robot NOT meeting VRC Inspection Criteria are NON-FUNCTIONAL decorations	R7c
<input type="checkbox"/>	Any grease is used only in moderation on components that do not contact the field, objects, or other robots.	R7d
<input type="checkbox"/>	Any polycarbonate sheeting on the robot was cut from a single sheet of 0.0625" material not larger than 12"x24".	R7e
<input type="checkbox"/>	Robot has only (1) VEX EDR Microcontroller (Cortex or PIC)	R9
<input type="checkbox"/>	Robot utilizes the VEXnet wireless communication system, or VEX 75 MHz Crystals when allowed	R10
<input type="checkbox"/>	None of the <i>electronics</i> are from the VEXplorer system.	R10b
<input type="checkbox"/>	Total number of Servos and Motors is not more than (10) and no more than four (4) are 2-wire #393 motors.	R11 R11a
<input type="checkbox"/>	Each 2-wire motor is plugged into its own 2-wire port on a Cortex controller or into a Model 29 motor controller	R11b
<input type="checkbox"/>	A motor may only be controlled by a single controller port (2+ controller ports may not control the same motor)	R11c
<input type="checkbox"/>	Robot uses a maximum of (1) Y-Cable per each 3-wire Motor Port on the VEX Microcontroller & Power Expander	R12
<input type="checkbox"/>	Robot uses (1) VEX 7.2V (Robot) Power Pack as the primary power source.	R13
<input type="checkbox"/>	If the Robot has a Power Expander, it has a 2nd 7.2V (Robot) Power Pack	R13
<input type="checkbox"/>	Robot does not have any disconnected batteries (used as ballast, etc).	R13a
<input type="checkbox"/>	Robot uses a maximum of (1) VEX Power Expander	R13b
<input type="checkbox"/>	If Using VEXnet, Robot has a charged 9V Backup Battery connected	R13c
<input type="checkbox"/>	Robot is not controlled by more than (2) VEX hand-held transmitters.	R14
<input type="checkbox"/>	NO VEX electrical components have been modified from their original state.	R15a
<input type="checkbox"/>	NO Method of attachment NOT provided by the VEX Design System is used. (Welding, Gluing, etc.)	R15b
<input type="checkbox"/>	Any repairs done to the wires on a VEX component do not extend the length or enhance the functionality of the component. Repairs may be covered by 1" (2.54cm) of insulating tape or shrink wrap tubing.	R15c

Field Control Check

<input type="checkbox"/>	Robot successfully completes the "Field Control Check" Procedure -- See Inspection Guidelines	R20
<input type="checkbox"/>	Robot enters Autonomous mode when prompted - with no driver control for duration of Autonomous	R20
<input type="checkbox"/>	The Hand-held Controller(s) ONLY control the robot when robot is in Driver mode	R20

Pass / Fail: _____ Inspector Initials: _____ Team Initials: _____