



# 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 &amp; 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: \_\_\_\_\_