



# Robot Inspection Checklist



Team Number \_\_\_\_\_

Robot: \_\_\_\_\_ of \_\_\_\_\_

## Size Inspection

<input type="checkbox"/> Robot fits within starting size restrictions (24" x 24" x 24") does not touch walls or ceiling of the sizing box! <i>Robot should be measured WITH Team ID # Plates installed.</i>	R4, VUR1
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## Overall Inspection

<input type="checkbox"/> Robot displays Colored VEX Team Identification Number on at least (2) opposing sides.	R19
<input type="checkbox"/> Robot does NOT contain any components which will be intentionally detached on the playing field.	G11
<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

## VEX Parts Inspection

<input type="checkbox"/> ALL Robot components (except sensors or electronics) are (or are IDENTICAL to) OFFICIAL VEX Products.	R5, R6, R7
<input type="checkbox"/> Robot does not use VEX products not intended for use as a robot component or any VEX packaging.	R5b
<input type="checkbox"/> ALL Components on the Robot NOT meeting VRC Inspection Criteria are NON-FUNCTIONAL decorations.	R7d
<input type="checkbox"/> Any grease is used only in moderation on components that do not contact the field, objects.	R7e
<input type="checkbox"/> Any non-shattering plastic on the robot was cut from a sheet of 0.070" material not larger than 12"x24."	R7f
<input type="checkbox"/> Any steel OR aluminum was cut from a sheet no larger than 12" x 12" and not thicker than 0.070."	VUR2
<input type="checkbox"/> Any fabricated parts were created from 1 piece of plastic no larger than 6" x 6" x 1."	VUR2
<input type="checkbox"/> Can use an unlimited number of 3D printed parts, but each less than 3x6x6 inches.	VUR2
<input type="checkbox"/> Robot has only (1) VEX Cortex Microcontroller.	VUR3
<input type="checkbox"/> Total number of Servos and Motors is not more than twelve (12).	VUR4
<input type="checkbox"/> Each 2-wire motor is plugged into its own 2-wire port or into a Model 29 motor controller.	R11a
<input type="checkbox"/> A motor may only be controlled by a single controller port.	R11b
<input type="checkbox"/> Robot uses a maximum of (1) Y-Cable per each 3-wire Motor Port (cannot "Y" off a 2-wire Motor Port.)	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"/> Sensors & Electronics MUST be connected to the VEX Microcontroller, and can only be connected via any of the externally accessible ports. They cannot directly electrically interface with the VEX motors.	VUR7ab
<input type="checkbox"/> An additional battery may be used solely for powering additional sensors and electronics.	VUR7c
<input type="checkbox"/> Robot uses a maximum of (1) VEX Power Expander.	R13b
<input type="checkbox"/> Team only utilize VEX Battery Chargers for charging VEX 7.2V Battery Packs.	R13e
<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"/> Robot uses a maximum of two (2) VEX pneumatic air reservoirs. (Maximum 100 psi per air reservoir)	R18

## Field Control Check

<input type="checkbox"/> Robot successfully completes the "Field Control Check" Procedure. See Inspection Guidelines.	R21
<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

## PTC Verification Testing

Failure to pass this test will result in immediate Event Disqualification	Pass / Fail: _____	Tested By: _____	R15 R21
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Final Inspection Pass/Fail: \_\_\_\_\_ Inspector Signature: \_\_\_\_\_ Team Initials: \_\_\_\_\_