

Robot Inspection Checklist - College Challenge

Team Number: _____

Size Inspection

<input type="checkbox"/>	Robot fits within starting size restrictions (15" x 15" x 15") or (24" x 24" x 24") does not touch walls or ceiling of the sizing box! <i>Robot should be measured WITH Robot Flag & Team ID # Plates installed.</i>	R4, VRCC-R1
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Overall Inspection

<input type="checkbox"/>	Team has at least 2 robots - must take 2 robot to field every match	VRCC-G1
<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.	G10
<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 hold the flags 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 (except sensors or electronics) are (or are IDENTICAL to) OFFICIAL VEX Products as sold on VEXrobotics.com	R5 R6
<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, or other robots.	R7e
<input type="checkbox"/>	Any non shattering plastic on the robot was cut from a single sheet of 0.0625" material not larger than 12"x24".	R7f
<input type="checkbox"/>	Any polycarbonate on the robot was cut from a single sheet of 0.0625" material not larger than 12"x24".	R7f
<input type="checkbox"/>	Any steel OR aluminum was cut from a sheet no largher than 12" x 12" and not thicker than 1/16"	VRCC-R2
<input type="checkbox"/>	Any fabricated parts were created from 1 piece of plastic no larger than 6" x 6" x 1"	VRCC-R2
<input type="checkbox"/>	Robot has only (1) VEX Cortex Microcontroller	VRCC-R3
<input type="checkbox"/>	Total number of Servos and Motors is not more than twelve (12).	VRCC-R4
<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 and 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	VRCC-R7ab
<input type="checkbox"/>	An additional battery may used solely for powering additional sensors and electronics	VRCC-R7c
<input type="checkbox"/>	Robot uses a maximum of (1) VEX Power Expander	R13b
<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

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: _____