



Robot Inspection Checklist - Cortex



Team Number: _____ Division: _____

Size Inspection

<input type="checkbox"/> Robot fits within starting size restrictions (18" x 18" x 18") without touching walls or ceiling of the sizing tool. Team ID Plates must be installed for sizing inspection.	R4, R28
---	---------

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 colored VEX Team Identification plates on at least (2) opposing sides.	R28
<input type="checkbox"/> Robot does NOT contain any components which will be intentionally detached on the playing-field.	G5
<input type="checkbox"/> Robot does NOT contain any components that could entangle or 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 on/off switch is accessible & Microcontroller lights are visible without moving or lifting the robot.	R24

VEX Parts Inspection

<input type="checkbox"/> ALL Robot components are (or are IDENTICAL to) OFFICIAL VEX Products as sold on VEXrobotics.com (No 3D printed functional parts are allowed)	R5, R6, R7
<input type="checkbox"/> Robot does not use VEX products not intended for use as a robot component or any VEX packaging.	R5
<input type="checkbox"/> ALL Components on the Robot NOT meeting VRC Inspection Criteria are NON-FUNCTIONAL decorations	R12
<input type="checkbox"/> Any grease is used only in moderation on components that do not contact the field, objects, or other robots.	R7
<input type="checkbox"/> Any non-shattering plastic on the robot was cut from a single sheet of 0.070" material not larger than 12"x24".	R9
<input type="checkbox"/> Robot has only (1) VEX EDR Microcontroller.	R15
<input type="checkbox"/> Robot utilizes the VEXnet wireless communication system.	R11
<input type="checkbox"/> None of the electronics are from the VEXplorer, VEXpro, VEX-RCR, VEX IQ, or VEX Robotics by Hexbug.	R5
<input type="checkbox"/> Total number of Servos and Motors is not more than twelve (12) without use of pneumatics or ten (10) with use of pneumatics.	R17
<input type="checkbox"/> Each 2-wire motor is plugged into its own 2-wire port or into a Model 29 motor controller	R17
<input type="checkbox"/> Only 1 motor may only be controlled by a single motor controller	R18
<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)	R18
<input type="checkbox"/> Robot uses (1) VEX 7.2V (Robot) Power Pack as the primary power source.	R19
<input type="checkbox"/> Robot uses a maximum of (1) VEX Power Expander, with a 2nd 7.2V (Robot) Power Pack	R19
<input type="checkbox"/> Robot has a charged 9V Backup Battery connected	R19
<input type="checkbox"/> Team only utilize VEX Battery Chargers for charging VEX 7.2V Battery Packs	R19
<input type="checkbox"/> Robot is not controlled by more than (2) VEX hand-held transmitters.	R20
<input type="checkbox"/> NO VEX electrical components have been modified from their original state.	R21
<input type="checkbox"/> NO Method of attachment NOT provided by the VEX Design System is used. (Welding, Gluing, etc.)	R21
<input type="checkbox"/> Robot uses a maximum of two (2) VEX pneumatic air reservoirs. (Maximum 100 psi per air reservoir)	R26

Field Control Check

<input type="checkbox"/> Robot successfully completes the "Field Control Check" Procedure. See Inspection Guidelines.	R22
<input type="checkbox"/> Robot enters Autonomous mode when prompted with no driver control for duration of Autonomous.	R21
<input type="checkbox"/> The Hand-held Controller(s) ONLY control the robot when robot is in Driver mode.	R21

Final Inspection (Circle)

Pass

Fail

Student team member accepts these Inspection results and agrees that this robot was designed, built, and programmed by qualified students on this team, with little assistance from the adult mentor(s):

Team Signature: _____

Inspector Signature: _____