Robot Inspection Checklist – Cortex

Team Number: _____ **Division:** _____

Size Inspection

☐	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, G4

Overall Inspection

☐	Team is only competing with ONE robot. They have no spare or replacement robots.	R1
☐	Robot displays colored VEX Team Identification plates on at least (2) opposing sides, with only (1) color visible.	R28
☐	Robot does NOT contain any components which will be intentionally detached on the playing-field.	G5
☐	Robot does NOT contain any components that could entangle or damage the playing-field or other robots.	R3
☐	Robot does NOT contain any sharp edges or corners.	R3
☐	Robot on/off switch is accessible & Microcontroller lights are visible without moving or lifting the robot.	R24

VEX Parts Inspection

☐	ALL Robot components are (or are IDENTICAL to) OFFICIAL VEX Products as sold on VEXrobotics.com or materials used as color filters, minimal grease or lubricant, minimal anti-static compound, hot glue for cable connections, unlimited 1/8th inch braided nylon rope, cable protection materials and tape for connections and labeling.	R5, R6, R7 R10
☐	Robot does not use VEX products not intended for use as a robot component or any VEX packaging	R5
☐	ALL Components on the Robot NOT meeting VRC Inspection Criteria are NON-FUNCTIONAL decorations	R12
☐	Any non-shattering plastic on the robot was cut from a single sheet of 0.070" material not larger than 12"x24"	R9
☐	Robot has only (1) VEX EDR Microcontroller.	R15
☐	Robot utilizes the VEXnet wireless communication system	R16
☐	None of the electronics are from the VEXplorer, VEXpro, VEX-RCR, VEX IQ, or VEX Robotics by Hexbug	R16
☐	Total number of Servos and Motors is not more than (12) without use of pneumatics or (10) with use of pneumatics	R17
☐	Each 2-wire motor is plugged into its own 2-wire port or into a Model 29 motor controller	R18
☐	Robot uses a maximum of (1) Y-Cable per each 3-wire Motor Port (cannot "Y" off a 2-wire Motor Port or another “Y”)	R18
☐	Robot uses (1) VEX 7.2V (Robot) Power Pack as the primary power source	R19
☐	If the Robot has a Power Expander, it has a 2nd 7.2V (Robot) Power Pack	R19
☐	Robot uses a maximum of (1) VEX Power Expander	R19
☐	Robot has a charged 9V Backup Battery connected	R19
☐	Team only utilize VEX Battery Chargers for charging VEX 7.2V Battery Packs	R19
☐	Robot is not controlled by more than (2) VEX hand-held transmitters	R20
☐	NO VEX electrical components have been modified from their original state	R21
☐	NO Method of attachment NOT provided by the VEX Design System is used (Welding, Gluing, etc.)	R22
☐	Robot uses a maximum of two (2) VEX pneumatic air reservoirs (Maximum 100 psi per air reservoir)	R26
☐	Any NON-FUNCTIONAL decorations do not imitate Game or Field objects as a distraction for the V5 Vision Sensor.	R12

Field Control Check

☐	Robot successfully completes the "Field Control Check" Procedure. (The hand-held controller(s) cannot control the Robot when in autonomous mode or when disabled by the Competition Switch).	R29

Final Inspection Pass **Inspector Signature:** _____

(Circle when passed)

Student team member accepts these inspection results and certifies that this robot was designed, built and programmed by qualified students on this team with little to no assistance from the adult mentor(s):

Team Member Signature: _____