V5 Brain Robot Inspection Checklist

Team Number: _____

Size Inspection

☐	Robot fits within starting size restrictions (18" x 18" x 18") without touching walls or ceiling of the sizing tool. During match play, no horizontal dimension exceeds 36". Team ID Plates must be installed for sizing inspection.	R4, SG2

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.	R20
☐	Robot does NOT contain any components which will be intentionally detached on the playing-field.	G4
☐	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 without moving or lifting the robot.	R17

VEX Parts Inspection

☐	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
☐	Robot does not use VEX products not intended for use as a robot component or any VEX packaging.	R5b
☐	ALL Components on the Robot NOT meeting VRC Inspection Criteria are NON-FUNCTIONAL decorations	R8
☐	Any grease is used only in moderation on components that do not contact the field, objects, or other robots.	R7d
☐	Any non-shattering plastic on the robot was cut from a single sheet of 0.070" material not larger than 12"x24".	R7e
☐	Robot has only (1) VEX V5 Robot Brain	R10
☐	Robot utilizes the VEXnet wireless communication system.	R11
☐	None of the electronics are from the VEXplorer, VEXpro, VEX-RCR, VEX IQ, or VEX Robotics by Hexbug.	R10b
☐	Total number of Smart Motors is not more than eight (8) without use of pneumatics or six (6) with use of pneumatics.	R12
☐	Robot contains no VEX 2-wire Motors.	R12c
☐	Robot uses one (1) V5 Robot Battery Li-Ion 1100mAh.	R14b
☐	Team only utilize VEX Battery Chargers.	R14b
☐	Robot is controlled by up to two (2) V5 Controller.	R15
☐	NO VEX electrical components have been modified from their original state.	R16a
☐	NO Method of attachment NOT provided by the VEX Design System is used. (Welding, Gluing, etc.)	R16f
☐	Robot uses a maximum of two (2) VEX pneumatic air reservoirs. (Maximum 100 psi per air reservoir)	R19
☐	Robot contains no Components obtained from the V5 beta program.	R5e
☐	If any custom cables are used, they are made only with official V5 Cable Stock.	R16c
☐	Any NON-FUNCTIONAL decorations do not imitate Game or Field objects as a distraction for the vision sensor.	R8g
☐	Robot Brain has the latest firmware listed on VEX.com/firmware	
☐	If Vision sensor is used, it has been calibrated & tested on competition fields **or** team accepts responsibility for doing so	

Field Control Check

☐	Robot successfully completes the "Field Control Check" Procedure. See Inspection Guide.	R22
☐	Robot enters Autonomous mode when prompted with no driver control for duration of Autonomous.	R21
☐	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:** _____