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 & Microcontroller lights are visible 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 EDR Microcontroller.	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 Servos and Motors is not more than twelve (12) without use of pneumatics or ten (10) with use of pneumatics.	R12
☐ Each 2-wire motor is plugged into its own 2-wire port or into a Model 29 motor controller	R12a
☐ A motor may only be controlled by a single controller port	R12a
☐ Robot uses a maximum of (1) Y-Cable per each 3-wire Motor Port (cannot "Y" off a 2-wire Motor Port)	R13
☐ Robot uses (1) VEX 7.2V (Robot) Power Pack as the primary power source.	R14
☐ Robot uses a maximum of (1) VEX Power Expander, with a 2nd 7.2V (Robot) Power Pack	R14a
☐ Robot has a charged 9V Backup Battery connected	R14
☐ Team only utilize VEX Battery Chargers for charging VEX 7.2V Battery Packs	R14
☐ Robot is not controlled by more than (2) VEX hand-held transmitters.	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

Field Control Check

☐ Robot successfully completes the "Field Control Check" Procedure. See Inspection Guidelines.	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:** _____