Robot Inspection Checklist

Team Number________________

Size Inspection

- Robot fits within starting size restrictions (18" x 18" x 18") does not touch walls or ceiling of the sizing box! Robot should be measured WITH Team ID # Plates installed. [R4]

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. [R19]
- Robot does not contain any components which will be intentionally detached on the playing-field. [G11]
- 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. [R16]

VEX Parts Inspection

- All Robot components are (or are IDENTICAL to) OFFICIAL VEX Products as sold on VEXrobotics.com (No3D 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 [R7d]
- Any grease is used only in moderation on components that do not contact the field, objects, or other robots. [R7e]
- Any non-shattering plastic on the robot was cut from a single sheet of 0.070" material not larger than 12"x24". [R7f]
- Robot has only (1) VEX EDR Microcontroller. [R9]
- Robot utilizes the VEXnet wireless communication system. [R10]
- 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. [R11]
- Each 2-wire motor is plugged into its own 2-wire port or into a Model 29 motor controller [R11-2a]
- A motor may only be controlled by a single controller port [R11-2b]
- Robot uses a maximum of (1) Y-Cable per each 3-wire Motor Port (cannot "Y" off a 2-wire Motor Port) [R12]
- Robot uses (1) VEX 7.2V (Robot) Power Pack as the primary power source. [R13]
- If the Robot has a Power Expander, it has a 2nd 7.2V (Robot) Power Pack [R13]
- Robot uses a maximum of (1) VEX Power Expander [R13b]
- If Using VEXnet, Robot has a charged 9V Backup Battery connected [R13c]
- Team only utilize VEX Battery Chargers for charging VEX 7.2V Battery Packs [R13e]
- Robot is not controlled by more than (2) VEX hand-held transmitters. [R14]
- NO VEX electrical components have been modified from their original state. [R15a]
- NO Method of attachment NOT provided by the VEX Design System is used. (Welding, Gluing, etc.) [R15b]
- Robot uses a maximum of two (2) VEX pneumatic air reservoirs. [R18]

Field Control Check

- Robot successfully completes the "Field Control Check" Procedure. See Inspection Guidelines. [R21]
- Robot enters Autonomous mode when prompted with no driver control for duration of Autonomous. [R20]
- The Hand-held Controller(s) ONLY control the robot when robot is in Driver mode. [R20]

PTC Verification Testing

Failure to pass this test will result in immediate Event Disqualification

Pass / Fail: __________ Tested By: ____________________ [R15]

Final Inspection Pass / Fail: ________ Inspector Signature: _______________ Team Initials: _____________

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