

# Robot Inspection Checklist

Team Number: \_\_\_\_\_ Division: \_\_\_\_\_

## Size Inspection

|  |       |
|--|-------|
| <input type="checkbox"/> Robot fits within starting size restrictions (18" x 18" x 18") with Team ID Plates installed.   | <R5>  |
| <input type="checkbox"/> Vertical robot expansion is limited to 24" or less and any extensions or combinations of extensions above 18" must fit within a vertical cylinder 2" in diameter. | <SG5> |

## Overall Inspection

|   |                  |
|---|------------------|
| <input type="checkbox"/> Team is only competing with ONE robot. They have no spare or replacement robots. Multiples of subsystem 3 are permitted.                                       | <R1>             |
| <input type="checkbox"/> Robot displays colored VEX Team Identification plates on at least (2) opposing sides, with only (1) color visible and the team number displayed in white text. | <R24>            |
| <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.   | <R4>             |
| <input type="checkbox"/> Robot does NOT contain any sharp edges or corners.   | <R4>             |
| <input type="checkbox"/> Robot Brain power button is accessible without moving or lifting the robot.  | <R23>            |
| <input type="checkbox"/> Team testifies that the designing, building and programming of the robot was done only by the students on the team.  | <R2>, <G2>, <G6> |

## VEX Parts Inspection

|  |                                   |
|--|-----------------------------------|
| <input type="checkbox"/> ALL robot components are OFFICIAL VEX V5 components 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 rope (no thicker than ¼"), rubber bands and zip ties that are identical to those included in the V5 product line, cable protection materials and tape for connections and labeling, and certain non-VEX screws, nuts and washers. | <R6>, <R7>, <R10><br><R11>, <R13> |
| <input type="checkbox"/> Robot does not use VEX products not intended for use as a robot component or any VEX packaging.   | <R6>                              |
| <input type="checkbox"/> ALL components on the robot NOT meeting VRC inspection criteria are NON-FUNCTIONAL decorations.   | <R12>                             |
| <input type="checkbox"/> Any non-shattering plastic (0.070" or thinner) on the robot fits within the space of a single sheet of material not larger than 12"x24".  | <R9>                              |
| <input type="checkbox"/> Robot has only (1) VEX V5 Robot Brain and no additional microcontrollers.   | <R14>                             |
| <input type="checkbox"/> Robot utilizes the VEXnet wireless communication system and no other wireless communication during matches.   | <R15>                             |
| <input type="checkbox"/> None of the electronics are from the VEXplorer, VEXpro, VEX-RCR, VEX IQ, VEX Cortex, or VEX Robotics by Hexbug. This includes the EXP Brain, EXP Controller, and EXP battery.   | <R6>                              |
| <input type="checkbox"/> Total number of V5 Smart Motors is not more than eight (8).   | <R16>                             |
| <input type="checkbox"/> Robot contains no VEX 2-wire Motors and no 5.5W V5 Workcell motors.   | <R16>                             |
| <input type="checkbox"/> Robot uses only one (1) V5 Robot Battery Li-Ion 1100mAh.  | <R18>                             |
| <input type="checkbox"/> Robot is controlled by no more than two (2) V5 Controllers.   | <R19>                             |
| <input type="checkbox"/> NO VEX electrical or pneumatic components have been modified from their original state.   | <R20>                             |
| <input type="checkbox"/> NO method of attachment NOT provided by the VEX Design System is used (welding, gluing, etc.).  | <R22>                             |
| <input type="checkbox"/> Robot uses a maximum of two (2) VEX pneumatic air reservoirs (maximum 100 psi per air reservoir).   | <R17>                             |
| <input type="checkbox"/> Robot contains no components obtained from the V5 beta program.   | <R6>                              |
| <input type="checkbox"/> If any custom cables are used, they are made only with official V5 Cable Stock.   | <R21>                             |
| <input type="checkbox"/> Any NON-FUNCTIONAL decorations do not imitate game or field objects as a distraction for the V5 Vision Sensor.  | <R12>                             |
| <input type="checkbox"/> Robot Brain has the latest firmware listed on VEX.com/firmware  | <R20>                             |

## Final Inspection

Pass

*(Circle when passed)*

Inspector Signature: \_\_\_\_\_

*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: \_\_\_\_\_