



# V5 Brain Robot Inspection Checklist

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



## Size Inspection

<input type="checkbox"/> 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
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## Overall Inspection

<input type="checkbox"/> Team is only competing with ONE robot. They have no spare or replacement robots.	R1
<input type="checkbox"/> Robot displays colored VEX Team Identification plates on at least (2) opposing sides.	R20
<input type="checkbox"/> Robot does NOT contain any components which will be intentionally detached on the playing-field.	G4
<input type="checkbox"/> Robot does NOT contain any components that could entangle or damage the playing-field or other robots.	R3
<input type="checkbox"/> Robot does NOT contain any sharp edges or corners.	R3
<input type="checkbox"/> Robot on/off switch is accessible without moving or lifting the robot.	R17

## VEX Parts Inspection

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

## Field Control Check

<input type="checkbox"/> Robot successfully completes the "Field Control Check" Procedure. See Inspection Guide.	R22
<input type="checkbox"/> Robot enters Autonomous mode when prompted with no driver control for duration of Autonomous.	R21
<input type="checkbox"/> 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:** \_\_\_\_\_