# Tournament Robot Inspection - VEX V5

**Team Number:**_____ **Division:**_____

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|---|---|---|
| ☐ | Team is only competing with one (1) robot, no spare or backup robots. | <R1> |
| ☐ | Robot has two (2) license plates: red or blue (not both), mounted on opposing horizontal sides that show legible team number in white font. | <R4> |
| ☐ | Robot has no intentionally detachable components, entanglement hazards, or parts that may damage the field or other robots. | <GG8> <GG9> |
| ☐ | Robot fits within an 18” x 18” x 18” volume before expansion in all legal starting configurations, with license plates attached. | <R3> |
| ☐ | Robot does not expand beyond 50 inches vertically and 24 inches horizontally. | <SG2> <SG3> |
| ☐ | Robot uses one (1) official VEX V5 Robot Brain and no additional microcontrollers. | <R6> |
| ☐ | Power button and/or battery connection are clearly visible and accessible without moving the robot. | <R7> |
| ☐ | Brain has the latest firmware installed and is properly named with Team Number. | <R8> |
| ☐ | Combined motor voltage does not exceed 88W equivalent, including those not plugged in. | <R10> |
| ☐ | All Drivetrain motors are limited to a combined maximum of 55W and are not shared with any other subsystem. | <R11> |
| ☐ | Robot uses one (1) official VEX V5 Battery and no other power sources. | <R12> |
| ☐ | Robot uses at least one (1) VEX radio and only VEXnet wireless communication. | <R13> |
| ☐ | Robot is controlled by no more than two (2) VEX V5 Controllers. | <R15> |
| ☐ | Robots may be built using ONLY official VEX V5 Electronics - no Electronics have been modified. | <R16> |
| ☐ | All components are not intended to damage other robots or field elements. | <R18> |
| ☐ | No electronics from V5 beta, other VEX product lines, or VEX Robotics by HEXBUG. | <R18> |
| ☐ | Only official VEX components are used; no packaging or non-robot VEX items. | <R18> |
| ☐ | No 3D printed parts or decorations, including non-functional decorations and license plates. | <R18> |
| ☐ | No excessive grease, anti-static spray, or aerosol lubricants. No grease on V5 Smart Motors or motor cartridges. | <R19> |
| ☐ | Hot glue used only for cable strain relief. | <R19> |
| ☐ | Rope/string is ≤ ¼” (6.35mm) thick. | <R19> |
| ☐ | Rubber bands no larger than 7.5” long and 0.25” wide. | <R19> |
| ☐ | Plastic zip ties no larger than 12” long and 0.25” wide. | <R19> |
| ☐ | If custom wires are used, wires use only official VEX V5 Smart Cable Stock. | <R20> |
| ☐ | Tape is used only for allowed purposes (labels, license plate backing, pneumatic fittings, decoration, securing ends of VEX cables). | <R21> |
| ☐ | Non-VEX screws/nuts match VEX dimensions, shoulder screws with a shoulder length <= 0.20" and a diameter <= 0.176". | <R22> |
| ☐ | No welding, soldering, or adhesive bonding of structural components. | <R27> |
| ☐ | Thread-locker used only for securing hardware. | <R27> |
| ☐ | All pneumatic components are legal and unmodified. | <R25> |
| ☐ | If team has pneumatics, a maximum of two (2) Air Tanks are used (≤100 psi). VEX Pressure Gauge required. | <R25> <R26> |
| ☐ | If plastic is used, it is non-shattering. | <R24> |
| ☐ | No more than twelve (12) pieces of custom plastic; each from one (1) flat sheet that is ≤ 4” x 8”. | <R24> |
| ☐ | No custom plastic thicker than 0.070” (1.78mm). | <R24> |

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|---|---|
| Yes / No | Team confirms all designing, building, coding was performed only by student members. |
| Yes / No | Team has read and understands the Game Manual and official Q&A rulings. |
| Yes / No | Team has read and understands the Student-Centered Policy. |

**Final Inspection:** ☐ PASS ☐ PARTIAL (changes required before match play)

**Inspector Signature:**_____ **Coach Signature**_____

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