

Robot Inspection Checklist

Team Number: 479

Robot Inspection Status (circle): **PASS / FAIL**

Team	Insp.	Robot Size Inspection	Rule #
✓	✓	Robot is presented at inspection with all mechanisms (including all components of each mechanism), configurations, and decorations that will be used on the Robot during the competition.	<I06>
✓	✓	Separately test the Robot in all of its unique starting (pre-match setup) configurations. The Robot fits within the Sizing Tool without exerting undue force on the Sizing Tool sides and	<I06>a <RG02>
✓	✓	Robot Motion Warning Label is attached if servo motors move during the Robot initialization.	<RG02>
✓	✓	General Robot Rules	Rule #
✓	✓	Robot does not contain any components that could damage the Playing Field or other Robots.	<RG01>a&b
✓	✓	Robot does not contain materials that are hazardous.	<RG01>c
✓	✓	Robot poses no obvious unnecessary risk of entanglement.	<RG01>d
✓	✓	Robot does not contain sharp edges or corners.	<RG01>e
✓	✓	Robot does not contain animal-based, liquid, or gel materials.	<RG01>f&g
✓	✓	Robot does not contain materials that would cause a delay of game if released.	<RG01>h
✓	✓	Robot does not contain elements that electrically ground the Robot frame to the Playing Field.	<RG01>i
✓	✓	Robot does not contain closed gas devices.	<RG01>j
✓	✓	Robot does not contain hydraulic devices.	<RG01>k
✓	✓	Robot does not contain vacuum based mechanisms.	<RG01>l
✓	✓	Team number is visible from at least 2 sides and meets requirements.	<RG04>
✓	✓	Alliance Markers are present and meet requirements.	<RG05>
✓	✓	Energy used by the Robot, (i.e., stored at the start of a Match), shall come only from approved sources.	<RG06>
✓	✓	Robot is not capable of launching its own components.	<RG07>
✓	✓	Robot Mechanical Parts and Materials Rules	Rule #
✓	✓	All components on the Robot are from allowable raw materials and Commercial Off The Shelf products.	<RM01> <RM02> <RM06>
✓	✓	Robot Electrical Parts and Materials Rules	Rule #
✓	✓	The Main Power Switch is installed properly, labeled, readily accessible, and visible to competition personnel. The TETRIX, REV, and MATRIX switches are the only allowed Main Power Switch.	<RE01>
✓	✓	All batteries are securely attached to the Robot in a location where they will not make direct contact with other Robots or the Playing Field.	<RE02>
✓	✓	Exactly one (1) Robot Main Battery Pack of an approved type is on the Robot and it is properly connected to the Main Power Switch and either the REV Expansion Hub or REV Control Hub.	<RE03> <RE05>a(i&ii)
✓	✓	Where present, fuses must not be replaced with fuses of higher rating than originally installed or according to manufacturer's specifications. Fuses are single use only.	<RE04>
✓	✓	Allowed electronic devices are powered by power ports on the REV Expansion Hub or REV Control Hub except as noted in <RE05>a&b, <RE13>, and <RE14>.	<RE05>a
✓	✓	The REV Expansion Hub and/or REV Control Hub is powered by the Robot main battery.	<RE05>a(i&ii)
✓	✓	REV SPARK Mini Motor Controllers and REV Servo Power Modules are powered by the Robot main battery or a REV Control or Expansion Hub XT30 port.	<RE05>a(ii)
✓	✓	Allowed sensors may only receive power from the REV Expansion Hub or REV Control Hub.	<RE05>a(iii)

✓✓✓	Light sources (including LEDs) are not focused or directed in any way, except for the REV Robotics 2m Distance Sensor. Light sources are powered by allowed methods.	<RE05>a(iv) <RE13>
✓✓✓	Video recording devices, if used, are powered by an internal battery and their wireless communication capability is turned off.	<RE05>a(v) <RE14>
✓✓✓	The smartphone Robot Controller Android device (if used) is powered by its internal battery or by the built-in charging feature of the REV Expansion Hub.	<RE05>b
✓✓✓	Exactly one Robot Controller (a) smartphone Android Device + REV Expansion Hub or b) REV Control Hub) is required. One additional REV Expansion Hub is allowed.	<RE06> <RE08>
✓✓✓	The only allowed Motor and Servo Controllers are: REV Expansion Hub, REV Control Hub, REV Servo Power Module, REV Spark Mini Motor Controller, and VEX Motor Controller 29.	<RE09>
✓✓✓	Robot contains no more than eight (8) DC motors of the allowed models.	<RE10>
✓✓✓	Robot contains no more than twelve (12) servos. They must be compatible with the attached REV Expansion Hub, REV Control Hub, REV Servo Power Module, or VEX Motor Controller 29 and not exceed the manufacturer specifications for the controller.	<RE11>
✓✓✓	Robot contains only allowed sensors and they are connected only to the REV Expansion Hub or the REV Control Hub.	<RE12>
✓✓✓	Power and motor control wires must use consistent color coding with different colors used for the positive (red, white, brown, or black with a stripe) and Negative/Common (black or blue) wires.	<RE15>f
✓✓✓	Power, motor control, servo and sensor wires are the correct size.	<RE15>i
✓✓✓	If electronics are grounded to the <i>Robot</i> frame, the only approved method is the REV Robotics Resistive Grounding Strap. If needed, the REV Robotics Anderson Powerpole to XT30 adapter may connect to the Resistive Grounding Strap. No other grounding straps or cables are allowed.	<RE15>k
✓✓✓	Approved electrical and electronic devices may be modified to make them more usable; they may not be modified internally or in any way that affects their safety.	<RE16>
✓✓	Wheel/Tread Playing Field Damage Test - Optional	Rule #
✓✓✓	Robot did not damage the Playing Field tile. [This is an optional test that is performed only when an Inspector believes that the drivetrain tread may damage a Playing Field tile.]	<I07>
✓✓	Team Scoring Element Inspection	Rule #
✓✓✓	The <i>Team Scoring Element</i> is subject to the <i>Robot Mechanical Parts and Materials Rules</i> in section 7.3.2.	<TE01>
✓✓✓	Maximum size of the <i>Team Scoring Element</i> is 4 inches (10.16 cm) by 4 inches (10.16 cm) by 8 inches (20.32 cm). The minimum size of the <i>Team Scoring Element</i> is 3 inches (7.62 cm) by 3 inches (7.62 cm) by 4 inches (10.16 cm).	<TE02>
✓✓✓	Team Scoring Element must be labeled with their Team number (numerals only, for example, "12345").	<TE03>
✓✓✓	Team Scoring Element does not use or resemble any current season's COTS scoring elements.	<TE04> <TE05>

General Comment(s) or Reason(s) for Failure (if any):

479 Stuy Fuston
Robot Inspector