

Inspection Checklist

Team Number: _____

<input checked="" type="checkbox"/> General	Rule #
ROBOT is presented at inspection with all MECHANISMS (including all COMPONENTS of each MECHANISM), configurations, and decorations used on the ROBOT.	I304
ROBOT has two ROBOT SIGNS that are located on opposite or adjacent sides of the ROBOT and visible to FIELD STAFF from at least 12 feet away and meet minimal size requirements.	R401
ROBOT SIGNS can indicate both ALLIANCE colors and meets markings requirements, unpowered.	R402
Team number is displayed on ROBOT SIGNS and meets number size requirements, unpowered.	R403

<input checked="" type="checkbox"/> Mechanical	Rule #
ROBOT does not contain any COMPONENTS that could harm people, damage the ARENA, or damage other ROBOTS. This includes sharp edges, protrusions, or hazards to the ARENA elements.	R201 , R202
ROBOT does not contain devices that generate sound at a level sufficient to be a distraction.	R203.B
ROBOT does not contain materials that are hazardous (i.e., flammable materials/gasses, mercury switches, exposed untreated hazardous materials).	R203.D , E , G , H
ROBOT does not contain materials that would cause a delay of game if released (e.g., coffee beans).	R205
ROBOT does not contain any closed air or hydraulic devices (i.e., gas springs, compressors, vacuum generating devices). Air-filled pneumatic wheels are exempt from this rule.	R203.F , R207
ROBOT does not contain prohibited COTS MECHANISMS (multi DoF, game task solving, etc.).	R303

<input checked="" type="checkbox"/> Electrical	Rule #
ROBOT does not contain more than 8 allowed motors and 10 allowed servos.	R503
Actuators are not modified except as explicitly allowed.	R504
Actuators are powered and controlled only from approved devices.	R505
No relays, electromagnets, electrical solenoid actuators, or related systems.	R506
Exactly 1 main battery pack of an approved type is on the ROBOT and it is properly connected to the main power switch, securely mounted.	R601 , R606
Exactly 1 approved main power switch must control all power provided by the ROBOT battery.	R609
COTS USB batteries on the ROBOT remain isolated from the ROBOT power systems.	R602
Fuses must not be replaced with fuses of higher rating than allowed, no self-resetting fuses allowed.	R610
If electronics are grounded to the ROBOT frame, the only approved methods are the REV, SWYFT or AndyMark resistive grounding strap and must be connected to a fully COTS XT30 COMPONENT.	R611
CUSTOM CIRCUITS cannot provide >5V regulated power (except for LEDs) and cannot alter critical power paths. Voltage and current monitoring are okay, as long as the effect is inconsequential.	R613 , R618
Circuits are wired with the appropriately sized insulated copper wire (non-SIGNAL LEVEL wires).	R615
All non-SIGNAL LEVEL wiring is consistently color-coded with different colors used for the positive (red, yellow, white, brown, or black with white stripe) and negative/common (black, blue) wires. Exception: Integrated wiring and extensions that use the same colors as the integrated wiring are OK	R616
The ROBOT must be controlled via 1 ROBOT CONTROLLER (REV Control Hub via USB or RS485, or allowed Android device via USB). The ROBOT CONTROLLER must be visible for inspection.	R701 , R704 R705 , R711
Only allowed USB devices may be connected to USB (no LEDs, etc.).	R714
Self-contained video recording devices, if used, must turn off or disable wireless communication.	R716

<input checked="" type="checkbox"/>	Control	Rule #
	The OPERATOR CONSOLE consists of only of one Android device (<i>Circle</i>): Motorola Moto G4 Play, Motorola Moto G5, Motorola G5 Plus, Motorola Moto E4, Motorola Moto E5, Motorola Moto E5 Play, or REV Driver Hub. If the team is not from North America and has an alternate smartphone, inquire whether or not the team complies with the R704 orange box.	R901 , R704
	The touch display screen of the DRIVER STATION device is functional, accessible, and visible to FIELD STAFF.	R902
	The OPERATOR CONSOLE consists of no more than two of the allowed gamepads.	R903

<input checked="" type="checkbox"/>	Operation	Rule #
	The two self-inspect screens on the OPERATOR CONSOLE do not display any issues except for any app version warnings. (no red exclamation marks)	R707 , R708 R710 , R718

<input checked="" type="checkbox"/>	Sizing	Rule #
	The ROBOT, in its STARTING CONFIGURATION, fits within an 18 in. (45.70 cm) cube.	R101
	The ROBOT, at maximum mechanical extension, fits within an 18 in. (45.70 cm) horizontal square.	R105.A
	The ROBOT, at maximum extension, fits within a height of 38 in. (96.50 cm).	R105.C
	OPERATOR CONSOLE does not exceed 3ft wide, 1ft 2 in deep and 2 ft tall (91.4cm by 35.5cm by 61.0 cm) excluding any items that are held or worn by the DRIVE TEAM during a MATCH.	R904

☐ PASS

☐ INCOMPLETE

COMMENTS: _____

Revision History	
Revision	Description
25-26.1	2025-2026 Initial Season Release
25-26.2	Incorporating TU 11 (R105 and R904) changes in <i>Sizing</i> section