

Skills BC Competition Robot Inspection Sheet

Instructions

- Return passed and completed inspection forms to the Judge's Area.
- Failed inspections should be referred immediately to the technical chair to determine next steps.

Team Number:

School:

Volume Calculations

Tele-OP Volume Calculation (LxWxH)	Autonomous Volume Calculation (LxWxH)

- ☐ Total tele-op Volume is less than 4ft³ (6912in³)
- ☐ Tele-Op bots always fit within a 30" square in the horizontal plane
- ☐ Total Autonomous Volume is less than 1ft³ (1728in³)
- ☐ Autonomous bot always fits within a 24" cube.

Electrical:

- ☐ Mandatory Wiring Diagram provided.
- ☐ All batteries are sealed commercial batteries in good physical condition
- ☐ Batteries wired in series should be the same amp hour rating (ex. both 1500 mAh) and batteries in parallel are of same voltage (ex. both 12 volts).
- ☐ Batteries securely mounted
- ☐ Total voltage in any individual circuit does not exceed 24V
- ☐ No circuit **branch** exceeds 240W (Voltage x Fuse Current Rating, easily accessible)
- ☐ All circuits have a fuse or breaker (breakers must have **DC rating**) and all Fuses/ Breakers must be readily accessible.
- ☐ No explosives/combustibles
- ☐ No lasers

Pneumatic

- ☐ Mandatory Pressure System Circuit Diagram provided.
- ☐ No Competitor-made or modified air pressure hardware being used.
- ☐ Only commercially manufactured Pressure Tanks (cylinders) can be used.
- ☐ Pressure indicator
- ☐ Pressure in tanks does not exceed 100 psi

- ☐ Over-pressure safety valve
- ☐ Pressure tanks and related gauges and controls are shielded from damage due to collisions.

Function

- ☐ Robot can be turned off with a single motion.
- ☐ Demonstrate robot. All functions are safe and in compliance with the scope.
- ☐ Snowballs are the only way a team's entry can interact with their opponents.
- ☐ Passes the dry fire shooting test. (Ball placed on the center wall doesn't get knocked off)

Pass

Fail

Robot Evaluator Signature:

Team Representative Signature:

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