



Inspection Guidelines

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Appendix 1 – Robot Inspection Guidelines

A1.1 – Overview

This section describes Robot Inspection for the Magbot Mayhem competition. It also lists the inspection definitions and inspection rules.

A1.2 – Description

The *robot* will be required to pass a full inspection before being cleared to compete. This inspection will ensure that all *robot* rules and regulations are met. Initial inspections will take place during team registration/practice time. A copy of the official “Robot Inspection Sheet” is located at the end of this guide. The “Robot Inspection Sheet” should be used as a guide to pre-inspect the robot.

A1.3 – Definitions

Robot – An operator controlled and/or autonomous programmed mechanism designed and built by a Magbot Mayhem team to perform specific tasks while competing. The robot can be constructed using any materials, either machined or from kits. No parts which pose a hazard, leak any fluids onto the field or could harm the field or game components will be allowed. Prior to participating in the competition, each *robot* will be required to pass an inspection.

Robot Sizing Box – A box used during *robot* inspection which has interior dimensions 18 inches (45.72cm) wide by 18 inches (45.72cm) long by 18 inches (45.72cm) high. The *robot* must fit within the box without exerting ANY force on the box walls or ceiling. (i.e. the robot cannot be held inside the constraints by the box itself) to pass inspection.

Robot Identification – A team identification number must be mounted so that it is clearly visible to tournament officials during a match. The numbers must be black, at least 3/4” stroke and at least 3” high..

A1.4 – Inspection Rules

- <I1> The team’s *robot* must pass inspection before being allowed to compete in Qualification Rounds. Noncompliance with any *robot* design or construction rule may result in disqualification of the robot at an event.
- <I2> The Official Team Number must be displayed on the *robot* prior to inspection as defined in the Robot section of the manual.
- <I3> The maximum size of the *robot* for starting a Qualifying or Elimination Match is 18 inches (45.72cm) wide by 18 inches (45.72cm) long by 18 inches (45.72cm) high. The *robot* must fit within a *Robot Sizing Box*. The *robot* must be self-supporting while in the *Robot Sizing Box*.
- <I4> The starting configuration of the *robot* at the beginning of a match must be the same as a *robot* configuration inspected for compliance, and within the maximum allowed size.

- <I5> *Robot* designs having more than one possible starting configuration, the largest possible configuration must be used during size inspection.
- <I6> When a team makes a modification to improve performance or reliability of their *robot*, the team may request a re-inspection of their robot by an Inspector.
- <I7> Inspectors evaluate *robots* to insure each *robot* has been designed to operate and function safely. The *robot* must be designed for safe operation and handling. Specific safety rules and limitations apply to the design and construction of a *robot*.
- <I8> A *robot* is deemed successfully inspected when all items listed on the “Robot Inspection Sheet” have been recorded as passed by an Inspector.