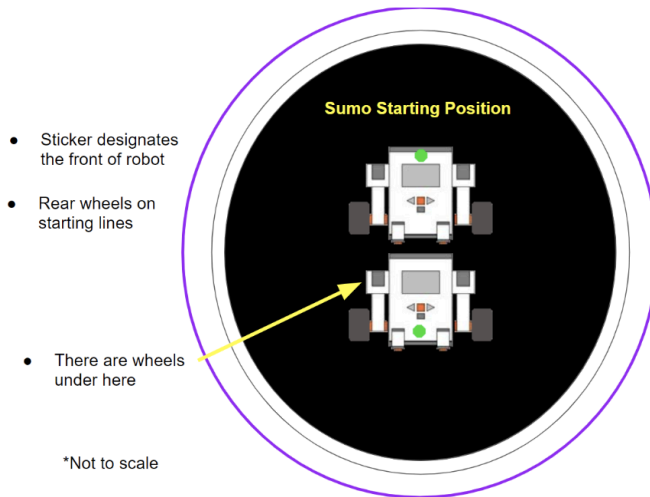


Sumobot Q&A

Updated: 11.21.24

Do you have a video or photo of the robots in their starting positions?



Can you give any clarification on how the "rear" of the robot is determined?

The front/rear of the robot is determined by the team members upon check-in.

What is the size limit of bots in the Sumobot Competition?

Robots must weigh no more than 2.5 lbs or 40 oz. Robots must fit within a 12" x 12" square at the start of the match. However, robots can expand after the bout begins.

If robots become entangled during a bout, and neither are able to make any movement (other than what could be considered as minimal during entanglement), is it necessary to finish the one minute bout?

In the event neither robot is able to move outside of mutual entanglement, both teams must agree to call the match a draw. After the second draw of a match, the robots will begin the third bout with their front wheels on the starting lines.

Is it okay for a motor to be turning during the 5 second wait period at the beginning of the match? What if something moves up and down as the robot waits. Is this legal?

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Per Rule #3 under "Bouts": At the start of a bout the robots must be programmed to wait 5 seconds before any motion is made.

According to Merriam-Webster, movement is a synonym of motion, so any movement is synonymous with any motion. Something moving up and down is movement, or motion. So it is not allowed.

How many motors can my SumoBot have? Is there a difference between the limit of motors and servos?

Per Rule #5: Only one (1) Intelligent brick and up to three (3) motors are allowed. The "motor" limit includes servos and motors – maximum of 3 (any combination)

Can you explain the starting positions?

Only one (1) Intelligent brick and up to three (3) motors are allowed. The "motor" limit includes servos and motors – maximum of 3 (any combination)

Does the SumoBot 3 motor limit reference just the large motors or both the large motors and the servos? Are they counted within the limit?

Only one (1) Intelligent brick and up to three (3) motors are allowed. The "motor" limit includes servos and motors – maximum of 3 (any combination)

What happens if there is no winner at the conclusion of the 3rd bout?

Tiebreaker Bout

- Two judges for these bouts
- Front wheels on starting lines (dots on starting lines)
- Untimed (except for 5 second delay)

Loser – unable to move more than (roughly) 6 inches in 5 seconds using its wheels.

Note: If a robot loses due to not having the 5 second wait time programmed in or having the first move anything other than forward, changes can be made prior to the second match, not second bout.

Will the kids be able to get color sensor readings at Rupp so they can adjust their program, if needed?

Absolutely

If the match seems to be a draw after one minute, how is the winner determined?

The winner is determined from the best of 3 bouts, so one draw doesn't affect the outcome.

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If the sumobot flips over on its side, is the match over?

The match is only over when one robot hits the floor. From the “rules” page: The first robot to touch the floor outside of the ring loses the bout. The robot that wins two out of three bouts wins the match. It would not be unreasonable for a robot to be flipped on its side, while the other robot drives off the ring onto the floor. So in theory, a robot on its side could win the match.

Can a robot have multiple programs for their sumo bot competition? For example, if a bot is repositioned by the ref, can a program number 2 be implemented that benefits their bot for a rear-facing bout?

A: Multiple programs can definitely be used.