

National Science Olympiad 2015 – Robo-Cross B

Supervisors will record this information for each team & each team is encouraged to use this form as a **pre-tournament Checklist!**
Supervisors can also record numbered items on the Robo-Cross excel spreadsheet found at www.soinc.org

Team Number: B____ Team Name: _____

Student Names: _____ Final Score: _____

Check in Items

6.k. Robot uses legal & permitted frequencies for radio controlled equipment for surface devices & is able to compete 1. Y N

6.g.v. Device has the capability by design to score points by moving objects. 2. Y N

Construction Parameters

2.a, b. Team enters only one Robot that is controlled remotely by radio, infrared, or hard-wired control boxes to the Robot. Y N

2.c. Commercial kit, if used, has at least one functional modification. Y N

2.d. The Robot in the ready to run position fits entirely inside an imaginary 28.0 cm x 28.0 cm x 28.0 cm cube. Y N

2.e. The Robot does not separate into two or more active components Y N

2.f. All Robot motion is powered only by electrical, elastic, or gravitational energy and these forms of energy are not converted to other forms of energy to power the Robot. Y N

2.g. Batteries, if used, are commercial and not exceeding 14.4 volts as labeled to energize each of the electrical circuits in the Robot and its controller(s) and if connected in series or parallel, the expected voltage output across any points does not exceed 14.4 volts as calculated using the labeled voltage. All power sources are contained either in the Robot or as part of the controller(s). Y N

IS THIS FREE OF ANY CONSTRUCTION VIOLATIONS ABOVE **3. Y N**

Competition Parameters

5.h The Robot stops within 2 seconds of the run completion. 4. Y N

Scoring

6.d. The number of correctly identified in 5.a. (out of 6) 5. _____

6.e. Is the Technical Documentation complete, incomplete or not present? (Circle One) 6. Complete
Incomplete
Missing

6.a.i. Is any part of the robot touching Zone A at the end of the competition? 7. Y N

6.a.ii. Is any part of the robot touching Zone B at the end of the competition? 8. Y N

6.a.iii. Is any part of the robot touching Zone C at the end of the competition? 9. Y N

6.a.iv. Is any part of the robot touching Zone D at the end of the competition? 10. Y N

Items	# in Zone C but not in either Jugs	# in Zone D but not in either Jugs	# in Jug 1	# in Jug 2
Pennies	11. _____	12. _____	13. _____	14. _____
Lego Blocks	15. _____	16. _____	17. _____	18. _____
Ping-Pong Balls	19. _____	20. _____	21. _____	22. _____
Tennis Balls	23. _____	24. _____	25. _____	26. _____

6.b. What Zone is Jug 1 in? (Circle One). If it is not in any of the Zones, leave it blank. 27. A B C D

6.b. What Zone is Jug 2 in? (Circle One). If it is not in any of the Zones, leave it blank. 28. A B C D

6.b. Is Jug 1 on its side or facing up? (Circle One). If it is facing down, leave it blank. 29. On its side
Facing Up

6.b. Is Jug 2 on its side or facing up? (Circle One). If it is facing down, leave it blank. 30. On its side
Facing Up

6.c: Competition time in seconds 31. _____

Tie Breaker: 6.g: Mass of the device (in g) 32. _____

General Rule 9: Disqualified (notify the team and their coach as soon as possible) 33. Y N