

The 2004 FIRST Robotics Competition

January 16, 2004

TEAM UPDATE

02

PLEASE DISTRIBUTE TO ALL TEAM MEMBERS!

FIRST will provide important information to teams via the FIRST web site at:

http://www.usfirst.org/robotics/doc_updt.htm

Please check the team updates portion of the web site on a regular basis to insure that your team does not miss critical information about the 2004 FIRST Robotics Competition.

Question & Answer System

The Question & Answer System can be found at:

<http://www.usfirst.org/robotics/2004/qa.htm>

1. Please ask one question at a time.
2. Questions are limited to 240 characters.

Section 1. Introduction

No changes.

Section 2. Communication

No changes.

Section 3. The Arena

- ❖ Change one of the “Steps to Deck” dimensions. The diamond plate “competition” steps to the lower deck (from the carpet) were produced with one dimension slightly different than published in the wood field drawings. The “run” (horizontal dimension) on the top step is 3.5”, not 3”.
- ❖ Additional Information.
The 3.5” casters specified on the mobile goal drawings are **in stock** and available from TCH (www.tchweb.com) in Buffalo, NY. There is a \$50 minimum order if you use the website to order. If you call 1-800-465-6281 (the number listed on their website), there is **no** \$50 minimum. There is plenty of stock on hand. Orders ship the same day if placed by 2PM ET. Orders ship via ground (which takes 5 days at the most), 2nd day, and overnight.

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- ❖ Additional Information; this will be added to the manual.

The Manchester Kickoff field showcased 20-inch high polycarbonate shields in each of the 4 corners of the field, 20-inch high polycarbonate shields in front of each of the 4 gates, and 20-inch high polycarbonate shields in front of each Ball Tee Station. The shields have holes in them so they can be moved.

Section 4. The Game

- ❖ Modify G09 as below. The new/modified text is **bolded** and italicized and/or ~~lined-out~~.

Team members may not extend any part of their bodies into any part of the playing field, ~~including the Ball Corral. Paddles will be provided to move balls from the Ball Corral into the Team Zone.~~ Violating this rule will result in the disabling of the team's ROBOT and the team will be disqualified.

- ❖ Modify G10 as below. The new/modified text is **bolded** and italicized and/or ~~lined-out~~.

HUMAN PLAYERS *may be passed or handed balls but otherwise* cannot be aided by any object or *other* person. Violating this rule will result in the disabling of the team's ROBOT and the team will be disqualified.

- ❖ Modify G11 as below. The new/modified text is **bolded** and italicized and/or ~~lined-out~~.

<G11> At the beginning of a match, each ROBOT must not exceed a 30 inch by 36 inch footprint *by 60 inches tall*, ~~and~~ must STRADDLE the white line on the playing field floor, *and touch the diamond plate on the Wall. A ROBOT can start in either Alliance starting position; drivers must setup under their team number.*

Section 5. The Robot

The IR code for the robot and beacon can be found on the Innovationfirst website at:

<http://www.innovationfirst.com/FIRSTRobotics/documentation.htm>

- Navigate.zip contains the code used on the robot
- Beacon.zip contains the beacon code used on the field

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Section 6. The Kit

❖ Correction.

Problem: Section 6. The Kit, page 3, Pneumatics – SMC, indicates there are to be 2 SMC double solenoid valves. In the Pneumatics manual, page 17, it says there is to be only 1 SMC double solenoid valve.

Answer: One double solenoid valve is the correct number. The two valves listed on page 3 of the Kit of Parts Checklist is in error. It should list the quantity per kit as one double solenoid valve.

❖ Clarification.

The yellow back-up battery is not part of the kit. This is the battery from the EduRobot kit. Additional ones can be purchased from:

<http://www.innovationfirst.com/FIRSTRobotics/>

❖ Clarification.

The pneumatics rotary actuator is **not** part of the kit. It can be ordered using the order form in the Pneumatics Manual.

❖ Additional Information.

Part #10089, a red 13" playground ball (2-ply rubber; **not** nylon wound) can be ordered from Palos Sports by calling Jessica at 800-233-5484. Palos is located at 11711 S. Austin Avenue, Alsip, IL 60803. There is no minimum order quantity.

NOTE: The 13" purple or 13" yellow balls featured at the 2004 Kickoff **are not available** to teams.

- ❖ A 34" yellow (inflate to 30") ball can be ordered from SportFun (they are in California) by calling Marcy at SportFun at 888-386-8998, x116 or e-mail Marcy at mwatters@sportfun.com.

Section 7. The Tournament

No changes.