

The 2003 FIRST Robotics Competition  
**TEAM UPDATE #2**

Date: January 9, 2003

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**PLEASE DISTRIBUTE THIS TO OTHER TEAM MEMBERS!**

FIRST will provide rules updates and other important information to teams via the FIRST web site at:

<http://www.usfirst.org/robotics/2003/docs.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 2003 FIRST Robotics Competition. FIRST recommends assigning at least one team member the duty of keeping up to date on all team updates. This person or group should be responsible for distributing information contained in team updates to the appropriate team members.

<p><b><u>QUESTIONS?</u></b></p>
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**MESSAGE BOARD**

In order to post questions on our message board at:

<http://jive.ilearning.com/index.jsp>

**This link has been corrected. In Team Update #1, there was a slash (/) before jsp, rather than a period (.).**

- You **must** reference the particular section of the manual you are questioning or your question will not be answered. This will help us give you the most accurate answer possible.
- Limit each message board submittal to ask only 1 question at a time. This will allow us to categorize your question and will enhance our ability to respond in a timely manner.
- **Please state your inquiry as a question. Some submittals have been lengthy and we have had a great deal of trouble trying to find the question buried within.**
- Do **not** reply to posted messages. FIRST is the only official source for answers. Your replies to posted questions slow down the moderating of this forum. Replies other than from FIRST will be deleted.

**AUTODESK, INC.**

All inquiries, please refer to:

[www.first.enteries.autodesk.com](http://www.first.enteries.autodesk.com)

## THE GAME

No information today but there will be in the next update.

## THE ROBOT

### PAGE 25, RULE K3 and K5

Any additional parts purchased from IFI do count towards the \$3,500 limit on the total cost of additional components.

### PAGE 47, SAMPLE INSPECTION SHEET

This sheet is exactly as labeled, a SAMPLE. The final 2003 sheet will be made available in the next few weeks. Items appearing on the SAMPLE sheet may or may not be on the final inspection document.

## KIT OF PARTS

### MISSING OR BROKEN

For any missing parts or broken parts, please contact us at:

[freparts@usfirst.org](mailto:freparts@usfirst.org)

### MSC – Tax-Exempt Status

For all teams that wish to use their tax-exempt status for FIRST Robotics purchases from MSC: All tax-exempt certificates must be faxed to the MSC tax department at 516-812-1705. Please reference your team number and corresponding ship-to address. Any purchases made without this certificate on file will be subject to state taxes. Please direct any sales tax questions to Rialate Wickers at 516-812-1559.

### CLARIFICATION – More Information

You can only use the motors provided in the 2003 Kit of Parts, in the quantities provided, on your robot. You can purchase additional motors to have on hand as spares.

You can use motors from previous years IF AND ONLY IF they are exactly the same as this year's motors. For example:

- ❑ You can use last year's CIM (Chiaphua or Atwood) motor even though the output shaft is different this year;
- ❑ You can use last year's Globe motor;
- ❑ You cannot use last year's Fisher-Price motor/gearbox;
- ❑ You cannot use last year's 3/8" drill motor/gearbox as we have provided a 1/2" motor/gearbox this year;
- ❑ You cannot use last year's window motors as they are NOT the same as this year's window motors;
- ❑ You cannot use last year's Mabuchi or Johnson motors as we did not provide them this year;
- ❑ You cannot use last year's Keyang motor, as we did not provide them this year;

### SHIPPING OF KITS – More Information

All kits have been shipped as of 1/8/2003.

### LATE SHIPMENT – More Information

The following items will be shipped to teams sometime during the week of 1/13/2003. **The 40A breakers are not yet available. If FIRST does not have them soon, the remaining items below will be shipped.**

1. SMC pneumatic parts:
  - Double Solenoid Base Ported Valve
  - Flow Control
  - Fitting, Straight ¼” Tube
  - Fitting, 90 Elbow ¼” Tube
  - Fitting, Tee Union ¼” Tube
  - Fitting, Male Run T 1/8 NPT ~ ¼” Tube
  - ¼” OD Tubing
2. Metric key stock; fits the shaft on the CIM (Chiaphua/Atwood) motor only; size is 0.079” x 0.094” x 1”; 2 pieces
3. Reflexite retro-reflective tape, ~~6” sample~~ **8” sample**
4. Various decals/stickers.
5. 40A Snap Action circuit breakers.

### YAW RATE SENSOR CONNECTOR – Correction / More Information

The connector configuration for the yaw rate sensor for the 2003 season is different than the one in 2002 and FIRST was not aware of this change until recently. We are in the process of acquiring information on how to obtain the new connector; however, a connector is listed on the spec sheet provided with each yaw rate sensor. **WE WERE JUST INFORMED THAT THE CONNECTOR ON THE SPEC SHEET HAS BEEN DISCONTINUED.**

### SUPPLIER LIST

The supplier list will be published in Team Update #3 on Friday, 1/10/2003. This list will show you what suppliers will sell directly to teams.

### BUYING PARTS MADE FOR FIRST

Instructions on how to obtain the parts that were made especially for FIRST will be published in Team Update #3 on Friday, 1/10/2003.

### MAXI FUSE BLOCK

The maxi fuse block consists of 4 parts as listed in the 2003 Kit of Parts. These were shipped to teams assembled as one unit, not as 4 separate parts.

## **FIELD / CORRECTIONS**

### **FIELD LINES**

The white field lines that start in the robot starting areas and run to the ramp do NOT continue up the ramp. The lines terminate coincident with an aluminum ramp support. The aluminum ramp support is very reflective and will allow line tracking. Immediately adjacent ramp supports will be painted black.

## **AUTODESK**

See QUESTIONS? at the beginning for Autodesk contact information