

2005 FIRST Robotics Competition

January 11, 2005

Team Update

01

→ Special Notices ←

Please review answers to questions in the Question & Answer System (see instructions below). Questions that show up repeatedly will also be highlighted in the Team Updates.

→ General Notices ←

Documents and Updates

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 2005 FIRST Robotics Competition.

Our schedule to publish Team Updates is:

- Tuesday by 5PM and Friday by 10AM. We work hard to meet these commitments. Unexpected circumstances may, on occasions, delay their publication.
- Additional updates may be released if required.

Question & Answer System

The Question & Answer System can be found at:

<http://www.usfirst.org/robotics/2005/qa.htm>

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

To **SEARCH** for questions answered after a certain date, do the following:

1. Leave **Section** set to **All**
2. Set **Date** to **After**
3. Enter the appropriate date in the next field
4. Leave **Search** blank
5. Set **Status** to **Answered**
6. Press Update Filter

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Section 0 - Introduction

No changes.

Section 1 - Communication

No changes.

Section 2 – Team Organization

No changes.

Section 3 - The Arena

➤ Distribution of tetras (the information below is for red or blue)

The human player mat areas will have approximately 3 stacks of 6 tetras each = 18.

The loading platform areas will have approximately 2 stacks of 8 tetras each = 16.

1 robot starts with a tetra = 1.

2 vision tetras each side = 2.

2 tetras in each corner goal = 2.

This totals 39 red and blue on the field. Field attendants will make reasonable attempts to ensure that the tetras are evenly distributed during matches, i.e., will attempt to ensure that no areas get depleted of tetras.

Section 4 - The Game

➤ The competition tetra pipes and caps will be glued together.

➤ 4.3.3 General Match Rules (GM)

The caption under illustration following rule G10 should read:

This illustrates where bonus tetras are placed at the end of the autonomous period if Vision Tetras are successfully stacked on the goals at the middle of the field. Bonus placements for the BLUE alliance are shown; RED alliance placements are similar.

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Section 5. The Robot (includes the Kit of Parts)

ROBOT

➤ 5.3.1 <R02>

The 2nd bullet should read "one Clippard Instrument tanks..." See Volume Tank, Clippard under KIT below.

➤ 5.3.3 Fabrication Schedule

The FIX-IT Window Diagram ship date should be February 22 and the end of the FIX-IT window should be 5:00 PM on February 24.

KIT

➤ Instructions for teams outside of the USA, Canada, and Mexico ordering from MSC Industrial

MSC has provided a Big Blue Book CD for ordering replacement parts. This CD has been included in the Kits. The instruction below is the only way international teams **outside of the USA, Canada, and Mexico** can place orders.

- The Director for teams outside the USA, Canada, and Mexico will be required to set up one account with MSC, i.e., there must be one point of contact and one ship to address for that Country.
- This Login information and ship to address will be provided to the teams. Teams must use the login that was created and use the address entered in the MSC system.
- Each team will add their individual team number to the order so the Director knows whom to contact when the parts arrive.
- Individual teams should copy the Director when an order has been placed.
- Teams can use the CD included in their kits or go to www.mscdirect.com
- MSC Industrial has established one point of contact for all the teams identified above. He is Leo Velasquez in Texas at 011-713-862-8665. He will assist the teams with any problems or questions.

➤ Corrections to Kit of Parts quantities

- Volume Tank, Clippard – The quantity should be 1, not 2. Teams wishing to acquire a 2nd tank can request one from Innovation First. The tank will be sent to you for the cost of shipping plus a small handling fee.

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- Globe Motor – The quantity should be 1, not 2.
- Taigene – The quantity should be 1, not 2.

➤ **Taigene sliding door motor**

Many people have reported that the Taigene sliding door motor has a sticker on it that has a “B” on it or a “BAD” on it. This is a sticker that is used by the automotive industry and does NOT indicate that your motor is bad.

Please do not request a replacement.

➤ **Elevator Bolt (Gray Container Item 2 – Miscellaneous Bag)**

The elevator bolt is not required. It was packed in anticipation of using it.

➤ **Master Link, Chain (in the Innovation First, Inc Item 1 Transmission Kit)**

Teams should find 2 master links. One is in the box with the chain located in the transmission box. The other master link is in a separate bag located in the transmission box.

➤ **Parker Accessories**

Teams wishing to acquire Parker accessories (there is a limited stock of clevis bracket, pin, nut, and retaining ring) can order them from Innovation First. You will be charged postage and a small handling fee.

➤ **Kit Transmission**

If you experience issues with the assembly of the Kit Transmission, please refer to www.ifirobotics.com/forum/ for critical assembly updates. This technical forum only contains answers by approved Innovation First moderators.

➤ **USER Code**

Frc-code-1-7-2005.zip default code can be compiled on either version of the compiler. It does not contain the software needed for the camera. The default code that contains the camera software is under test and will be released soon. It will require the new version of the Microchip compiler (v2.4).

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Section 6 – Robot Transportation

➤ Batteries

The batteries provided to you in the 2005 Kit of Parts **must** be shipped according to the specifications found in Sections 6.2, 6.3.3, and 6.3.4.

Section 7 – At the Events

No changes.

Section 8 – The Tournament

No changes.

Section 9 – The Awards

No changes.

Section 10 - Scholarships

No changes.

E-Mail Blasts Sent Previously

On Monday, January 10, 2005

LED Light Clusters

They were not supposed to be in the kit. They will be handed out at the regional events before your robot is inspected.

We apologize for the confusion in labeling this item as "Event Pick-up Item 6" on the Kit of Parts checklist.

Taigene Sliding Door Motor

The "Gray Container Item 5 Loose" should have contained 1 motor, not 2. The Kit of Parts list incorrectly specified a quantity of 2.

Globe Motor

The "Gray Container Item 5 Loose" should have contained 1 motor, not 2. The Kit of Parts list incorrectly specified a quantity of 2.

Purchasing Additional Parts

Please Do Not call MMH for additional parts. For 2005, Innovation First will be handling the sale of additional parts to teams. These parts are in route to IFI and will be available via the website early next week.

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On Monday, January 10, 2005

The 2 Hall-Effect Gear Tooth sensors **ARE** in the Sensor Envelope. They are "stuck" to the sides of the Texas Instrument's Accelerometer magnet.

Please look very closely. They are not very big... ~ 5/16" diameter x 1/4" tall with 4 silver-colored leads protruding from them.