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→ Special Notices ←

Do <u>NOT</u> bring your radios to the Playing Fields for your matches. This year we are using BANKED RADIOS (our own radios on a stanchion) in preparation for using 24 radio channels at the Championship in Atlanta, GA.

→ 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

Please review answers to questions in the Question & Answer System daily before submitting a new question (see instructions below).

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.

Find Q&A Answered After a certain date	Find an Individual Q&A ID
Leave Section set to All	Enter question ID # in the ID field
Set Date to After	Press <i>Update Filter</i>
Enter the appropriate date in the next field	
Leave Search blank	
Set Status to Answered	
Press <i>Update Filter</i>	

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	Saction O. Introductio	••
	Section 0 - Introductio	<u>n</u>
No changes.		
Se	ction 1 - Communicat	ion
No changes.		
Sect	ion 2 – Team Organiz	ation
No changes.		
	Section 3 - The Arena	
> MODIFICATION of: The l	Human Player Loading B	<u>OX</u>
See Q&A Items of note below, #1715 and #1721.		
Section 4 - The Game		
> IMPORTANT INFORMAT	ΓΙΟΝ on: Being in the Loa	ading Zone
See Q&A Items of note below, #1715 and #1721.		
Section 5. The Robot (includes the Kit of Parts)		
ROBOT		
> INFORMATION on: Robo	t Inspection	
Remember that the Fix-It win Other Fix-It windows have co	.	shipping limits what you can do. as well.
As part of the inspection prod	cess, teams will be asked to	sign the following pledge:
Team Compliance State	<u>ement</u>	
below, that our team's roin accordance with all of (reference Section 5.3.3).	the 2005 FRC rules, include	Kickoff on January 8, 2005 and ing all Fix-It Window rules on inspection and determined that

Team Captain: ___

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Team Inspector:		
Team Mentor:		

PROTECT your: Kit Transmission

Please remember to lubricate your transmission to prolong its life... not to mention that it runs much quieter.

KIT

> MORE INFORMATION on: Fisher-Price motors

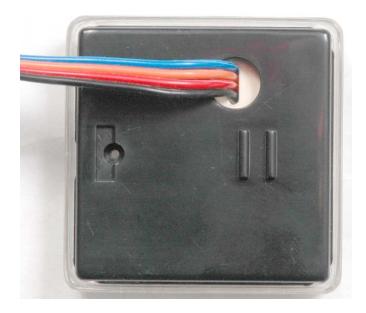
The 2003 Fisher-Price motor can be used in 2005.

The 2003 F-P motor is a Mabuchi, while the 2004 motor was made by Johnson Electric. Both motors had the same 19-tooth pinion on them. However, the two motors' performance data are slightly different:

- o The Mabuchi is rated at 150W peak power. Stall torque is 0.383N-m.
- o The Johnson is rated at 164W peak power. Stall torque is 0.400 N-m.

Compared to the 2005 Mabuchi motor (at 12V), the above motors are not as powerful as it is (407W peak), whereas the 2005 motor at 6V is rated at 102W peak.

> PICTURE of an: LED robot light (back)



F. L 22 200F	T 11. J.A.	42	
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Section	Section 6 – Robot Transportation		
No changes.	r		
S	ection 7 – At the Even	its	
No changes.			
Sec	ction 8 – The Tournan	nent	
> IMPORTANT INFORMAT	FION on: Match schedulin	ng	
of matches is significantly me that there have been cases whencounter another multiple to have implemented a new mat significantly improved performelatively close together. The minutes after the end your probe ready to play in this time if you are fortunate enough to make the significantly matches after the end your probe ready to play in this time if you are fortunate enough to make the significantly methods.	ore difficult. In addition, in there a team may not be on the mes. In order to maximize the scheduling algorithm. Vernance, it does allow some there may be cases where you evious match. Please make nterval. Although 12 minutes it to the finals, you will 12 minutes is a minimum.	matches to be scheduled	
Section 9 – The Awards			
No changes.			
Section 10 - Scholarships			
No changes.			
FIRST Guidelines, Tips & Good Practices			
No changes.			

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E-Mail Blasts Sent Since Last Update

2/18/2005

Several of the Regional "Site Info" sections on the web have been updated since first being posted. We have identified these in the Team Updates accordingly. Please note there may be additional edits to "Site Info", so please read your Team Updates carefully!

Some regionals also have Pre-Order Lunch forms that need to be filled out and submitted by the due dates given. These are found in the "Site Info" sections. You will want to make sure you have checked through your regional's "Site Info" carefully for these forms.

All "Site Info" documents are found under your regional's listing at:

http://www.usfirst.org/robotics/2005/rgevents.htm

Please contact us at frcteams@usfirst.org if you have any questions.

Question & Answer Items of Note

> ADDITIONAL INFORMATION on: Q&A #1715 and #1721

<u>Text from #1715</u>

Yes. After attending and receiving feedback from several scrimmages this past weekend (2/19), we will allow robot-base appendages that are within and remain within the 28" x 38" dimensions to contact the loading zone and be legal.

Text from #1721

Yes, however, it is important that it be clearly visible to the referees in order to avoid receiving a penalty.

During the various scrimmages last weekend, it became clear that robots were having difficulty getting in the loading zones and receiving and retrieving tetras without drawing penalties. In order to make this more reasonable for teams, we have decided to broaden the interpretation of the concept of the robot base, as mentioned in Q&A 978 and 1617. The referees will consider any item contacting the loading zone triangle, that is clearly visible and within the original 28" x 38" starting footprint, as part of the robot base. It is very important, however, that it be clearly visible to a referee standing 5 or 10 feet away. An encoder wheel or caster that is under the chassis may not be visible,

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and as a result, may not prevent the team from receiving a penalty.

In addition, FIRST has decided to make the Human Player loading box larger in order to give the Human Player more room to avoid robot arms or appendages while they are loading the robot. This "box" will now be a triangle 48" on a side. Human Players are encouraged to wear helmets if their robot presents an arm or appendage that overhangs the outside of the field while it is receiving a tetra.

Finally, Human Players should use the following sequence when loading a tetra in order to avoid a penalty according to rule <G27>:

- 1) Step into the loading box. To be in the box, part of both feet must on or over the box border.
- 2) Load the tetra on the robot.
- 3) Clearly and decisively remove your hands from the tetra.
- 4) Step out of the loading box.

Other Items of Note

> NEW SITE INFORMATION for: Several locations

Sacramento Regional – Lunch pre-ordering opportunity

• Now includes the order forms for pre-ordering lunches

New York City Regional - Crate arrival

• The crate arrival deadline has changed.

Philadelphia Regional - Lunch pre-ordering opportunity

• There is updated information regarding a lunch pre-ordering opportunity.

Pittsburgh Regional - Lunch pre-ordering opportunity

• There is updated information regarding a lunch pre-ordering opportunity.

Colorado Regional - Lunch pre-ordering opportunity

There is updated information regarding a lunch pre-ordering opportunity.

For the links to all events, go to:

http://www.usfirst.org/robotics/2005/rgevents.htm

Teams attending these events should print and distribute the section to team members.