

February 6, 2007

TEAM UPDATE #9

GENERAL NOTICES

Transmission Update:

Team Update #7 provided a General Notice that *FIRST* is aware of a concern with the 12:1 Planetary Transmission (Part Number GP-56012) included in the Kit of Parts. There are some reported issues regarding the durability of the carrier plate in the last stage of the transmission in severe stress applications. During such applications, the straight edges of the carrier plate output shaft hole deform to a bow-tie shape.

BaneBots, *FIRST*, and members of the *FIRST* community have concluded that hardened carrier plates are the solution to the bow-tying effect in the double-D hole. Replacement plates are currently being manufactured by BaneBots for all transmissions distributed to the *FIRST* community. These plates will be available and distributed to teams by BaneBots at no additional charge. We are currently working on a distribution method to insure that teams receive them promptly. The production and distribution of new carrier plates is a proactive activity that was initiated as a result of static analysis and bench testing. We are not aware of any *FIRST* team actually experiencing this failure.

Teams can continue to use the transmissions in their current state. If the loads cause the plate to deform, the transmission will decrease in its effectiveness but will not permanently damage any part of the transmission other than the carrier plate.

We appreciate and thank the *FIRST* community for the energetic analysis and problem solving initiative.

Machine Science:

Now, for first time ever, teams can program the FRC Robot Controller without any locally installed software. With the latest version of Machine Science's on-line programming tool, you can log in to the Machine Science web site with any Java-enabled web browser and start programming the FRC Robot Controller instantly! Machine Science's on-line system combines a clean programming interface with the full power of the C18 compiler. To access the tool, registered users can log in at the Machine Science web site:

<http://www.machinescience.org>

If you have not yet registered your *FIRST* team leader account, please go to:

<http://www.machinescience.org/firstoffer.html>

Section 0 - Introduction

No changes.

Section 1 - Communication

No changes.

Section 2 – Team Organization

No changes.

Section 3 – At the Events

No changes.

Section 4 – Robot Transportation

Section 4 – Robot Transportation, Rev C has been modified to include the following changes:

Section 4.3.4 has been updated to state that:

NEW: Required Crate Contents

Teams must include:

- the Robot
- the Operator Console
 - See section 8 for definition of Operator Console
 - If you use a computer as part of the Console, you do not have to ship the computer, but may not continue to program your dashboard
- the two (2) Kit of Parts 12VDC batteries

Please pack per “Battery Packaging” section above

Section 5 - The Awards

No changes.

Section 6 – The Arena

No changes.

Section 7 – The Game

No changes.

Section 8 – The Robot

Section 8 – The Robot, Rev E has been modified to include the following changes:

Rule <R45> has been updated to state that:

One or two additional 2-1/2” CIM motors (part #FR801-001 and/or M4-R0062-12) in addition to those provided in the Kit Of Parts. This means that up to four, and no more, 2-1/2” CIM motors can be used on the ROBOT.

Section 9 – The Tournament

No changes.

Section 10 – Kit of Parts

Due to a shortage of the red and black terminal blocks from the distributor (Rockwell), *FIRST* will accept additional terminal blocks of any color as long as they are the same model.

There is a team that received relay part number 700-SKO~~Z~~2Z25 instead of the correct part number 700-SKO~~C~~2Z25. We expect that this was an anomaly, but if you notice that you also received the 700-SKO~~Z~~2Z25, please email FRCParts@usfirst.org. Please note that the 700-SKO~~Z~~2Z25 part will not allow the signal light to function.

The 2 1/2" CIM motor sold by BaneBots, part number M4-R0062-12 is identical to the CIM motors provided in the kit and made by the same manufacturer. The only difference is the part number that the manufacturer marked on the case. This motor is permitted per Rule <R45> in Section 8 - The Robot RevE.

Documents and Updates

2007 Field_Rack_Weldments_R1.pdf has been updated to 2007 Field_Rack_Weldments_R2.pdf. A reference dimension was added to part "W1".

Also note that 2007 Field_Rack_Assembly_R-.pdf has been replaced with 2007 Field_Rack_Assembly_R1. The dimension from the floor to the center of the bottom plate on the Rack has been updated.

2007 *FIRST* Guidelines, Tips, and Good Practices

No changes.

The *Question & Answer* System

No changes.