

January 30, 2007

## TEAM UPDATE #7

### GENERAL NOTICES

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*FIRST* is aware of a concern with the 12:1 Planetary Transmission for the 2.5" CIM motor (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. *FIRST*, the manufacturer and team participants are investigating the situation and analyzing the problem. Details of the investigation, analysis, and recommended solution (if needed) will be relayed to teams as soon as those details are finalized. This update is intended to alert all teams to the situation. It is recommended that teams continue to design and build their robots while this issue is evaluated by *FIRST*.

The Inspection checklist has been posted as item #5 under Section 8, The Robot.

<http://www.usfirst.org/community/frc/content.aspx?id=452>

\*Please note that this year teams will be required to submit a hard or soft copy of the Bill of Materials (BOM) at inspection.

#### 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

No changes.

#### Section 5 - The Awards

No changes.

## Section 6 – The Arena

**Section 6 – The Arena, Rev C** has been modified to include the following changes:

Section 6.2.2 The RACK has been updated to state that:

"The power cable for the target lights is suspended above the Rack and drops down to the power supply located at the top center of the Rack. ROBOTS are not to interact or interface with the power cable by any means. Doing so will result in disqualification of the offending ROBOT."

**\*New\*** Field Drawings have been added to Official *FIRST* Drawings (Bungee Brackets):  
<http://www.usfirst.org/community/frc/content.aspx?id=3804>

Bungee Bracket Drawings – Complete Set

Arm – R1

Lower Assembly – R1

Lower Clamp – R1

Upper Assembly – R1

Upper Clamp – R1

Velcro Plate – R1

## Section 7 – The Game

No changes.

## Section 8 – The Robot

The GDC acknowledge that they gave conflicting Q&A answers regarding the wheel sprockets. These sprockets were custom made for *FIRST*, are not COTS items, and additional quantities would not normally be available. Therefore, additional sprockets obtained from other teams would not normally be permitted. However, considering the conflicting statements, we will allow more than two kit sprockets on robots, provided they are accounted for per the manual (use a price of \$10 per sprocket).

## Section 9 – The Tournament

No changes.

## Section 10 – Kit of Parts

No changes.

## Documents and Updates

No changes.

## 2007 *FIRST* Guidelines, Tips, and Good Practices

No changes.

***The Question & Answer System***

No changes.