

January 16, 2007

## TEAM UPDATE #3

### GENERAL NOTICES

---

#### 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

No changes.

## Section 7 – The Game

**Section 7 – The Game, Rev C** has been modified to include the following changes:

Rule <G56> has been updated to state that:

<G56> ROBOTS in HOME ZONE - ROBOTS score bonus points at the end of the match if they are entirely in their HOME ZONE, not in contact with any element of the field (carpet, alliance station, goal, etc.), not supported by a GAME PIECE, and the lowest point of the ROBOT is higher than 4 inches and/or 12 inches above the carpeted field surface. The number of bonus points an ALLIANCE receives is based on the total number of ROBOTS satisfying these conditions. Each ALLIANCE ROBOT entirely in their HOME ZONE at the end of the match is eligible to receive the following bonus points:

- Each ROBOT between 0 and 3.9 inches above floor level - 0 bonus points
- Each ROBOT between 4.0 and 11.9 inches above floor level - 15 bonus points
- Each ROBOT 12.0 inches or more above floor level - 30 bonus points

## Section 8 – The Robot

**FIRST Guidelines, Tips, and Good Practices** has been updated to **Revision A**.

The new document reflects the following changes:

- The link for the Sensors Manual, etc has been updated to <http://www.usfirst.org/community/frc/content.aspx?id=4054>

- The reference to the Parker cylinder (which was not in the kit this year) on page 35 has been removed

- The list of sources for additional parts has been updated throughout

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

Rule <R46> has been updated to state that:

<R46> Items specifically PROHIBITED from use on the robot during competition matches include:

- Primary 12v batteries different from those provided in the KOP
- More than one primary battery, or more than one back-up battery
- Circuit breakers different from those provided in the Kit Of Parts. Note: the Snap Action brand circuit breakers provided have unique “trip” characteristics. No substitute brands are permitted.
- Fuse panels different from those provided in the Kit Of Parts.
- Electric motors different from, or in addition to, those in the Kit, with the exception of those specifically permitted by Rule <R45>.
- Any air compressor other than the one provided in the Kit Of Parts.
- Hydraulic fluids or hydraulic components.

- Lasers of any type.
- Speakers, sirens, air horns, or other audio devices that generate sound at a level sufficient to be a distraction or hindrance affecting the outcome of a match.
- Electric solenoid actuators (note: electric solenoid actuators are NOT the same as pneumatic solenoid valves – the latter are permitted, the former are not).

## Section 9 – The Tournament

**Section 9 – The Tournament, Rev A** has been modified to include the following changes:

Rule <T23> has been updated to state that:

<T23> The only equipment that may be brought on to the field is the OPERATOR CONSOLE, reasonable decorative items, and special clothing and/or equipment required due to a disability. Other items, particularly those intended to provide a competitive advantage for the HUMAN PLAYER, are prohibited.

Devices used solely for the purpose of planning or tracking strategy of game play are allowed inside the ALLIANCE ZONE, if they meet ALL of the following conditions:

- Do not connect or attach to the OPERATOR CONSOLE
- Do not connect or attach to the FIELD or ARENA
- Do not connect or attach to another alliance member
- Do not communicate with anything or anyone outside of the ALLIANCE ZONE (for example wireless communications must be disabled).
- Do not in any way affect the outcome of a MATCH, other than by allowing team members to plan or track strategy for the purposes of communication of that strategy to other alliance members.

## **Section 10 – Kit of Parts**

**The Kit of Parts Checklist has been updated to Revision D.**

The new document reflects the following changes:

- The part number for the Banebots gearmotor is MP36064-540 (not MP-06364-545).
- The part number for the Banebots motor is M2-RS540-120 (not M1-RS540-12).
- The part number for the Innovation First robot controller is ROBOT-RC (not IFI-RC-RADIO-A)
- The part number for the Innovation First operator interface is ROBOT-OI (not IFI-OI-RADIO-A)
- The wheel bearings are 1/2" Inside Diameter, 1 1/8" Outside Diameter "R8" bearings (not 3/8" S3KDD)
- The part number for the Banebots planetary transmission, GP-56012, was added.

## **Documents and Updates**

No changes.

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

No changes.

## ***The Question & Answer System***

No changes.