

February 5, 2008

TEAM UPDATE #8

GENERAL NOTICES

Modifications to rules are highlighted in yellow.

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 F, has been modified to include the following change:

Rule <G20>

TRACKBALL Locations - After all ROBOTS participating in the MATCH are in their starting positions and the TEAM members are behind the Players Line in the ALLIANCE ZONE and/or ROBOCOACH STATIONS, four TRACKBALLS will be

placed on the OVERPASS. On each side of the OVERPASS there are three TARGET LOCATIONS for TRACKBALLS. The field management system will randomly choose an initial starting location for the TRACKBALLS before the start of each MATCH. One red and one blue TRACKBALL will then be positioned in the chosen TARGET LOCATIONS on each side of the OVERPASS. After this point in time no ROBOT or OPERATOR CONSOLE may be adjusted or repositioned until the MATCH starts.

Section 8 – The Robot

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

Rule <R55>

All active circuit breaker / power distribution panel branch circuits shall be protected from overload with an appropriate value auto resetting Snap Action circuit breaker from the Kit Of Parts.

- The Robot Controller power feed must be protected with a 20A circuit breaker. No other electrical load can be connected to this breaker.
- If the compressor is used, the air compressor Spike relay power feed must be protected with a 20A fuse or 20A circuit breaker. No other electrical load can be connected to this breaker.
- Power feeds to custom circuits and additional electronics must be protected with a 20A circuit breaker.
- Speed controllers must be protected by 20A, 30A, or 40A circuit breakers.
- Each relay module must be protected with one and only one 20A circuit breaker.

In addition to the required branch power circuit breakers, smaller value fuses or breakers may be incorporated into custom circuits for additional protection.

Rule <R110>

Any ROBOT construction technique or element that is not in compliance with the Robot Rules (Rule <R01> through Rule <R116>) must be rectified before a ROBOT will be allowed to compete or continue competing. Any ROBOT used during a MATCH when a Robot Rule violation is detected will automatically be assigned a PENALTY and may receive a Yellow Card, depending on the severity of the infraction (unless otherwise noted).

The 2008 *FIRST* Pneumatics Manual has been updated to include the following change:

Norgren Regulator Section

This regulator has a nominal output pressure of 0-50psi. However, Norgren has approved the operation of this regulator up to 60psi for *FIRST* teams, based on the operating conditions for a *FIRST* robot.

The Inspection Checklist, Rev E has been updated to include the following changes:

- Only one motor per Victor
- “Can the robot exceed 80” max size” checkbox
- Safe Ball Handling inspection item

Section 9 – The Tournament

No changes.

Section 10 – The Kit of Parts

No changes.

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

No changes.