Challenge #2 Soccer (ping pong balls)

Challenge:

1. Create a robot that will be controlled using your remote.
2. Robot must move soccer balls into the opposition’s goal.
3. Their will be 10 soccer balls placed on the playing field at the start of the game. 5 on each side of the obstacle. **10 point for each in a goal**
4. 5 red balls will place on the top of the obstacle. **30 points for each ball in a goal**
5. The team with the most goals in the shortest time will be the winner.
6. Each round will be 15 seconds of autonomous mode, then 1 min 15 sec. of remote control.

Playing field:

1. This is a head on competition.
2. Your robot will be placed in a rectangular arena (4’ x 8’)
3. One obstacle will be placed in the center of the arena (3.5” x 24”)
4. One goal will be placed at each end of the arena. 2” wide.
5. Soccer balls will be placed on either side of the obstacle (5 on each side)

Rules:

1. Robots can not block goals (marked area)
2. Robots can not block red areas (around obsticles)
3. Robots can not park for more than 5 seconds
4. Robots can use either push or dump balls into goals.
5. Each must include the bumper sensor (plugged into port 10) on the back of the bot. Make sure the ball does not hit the bumper sensor or the operator will temporarily lose control! (5 seconds).
6. Robot size at the start of competition.
   1. 16” long (front to back)
   2. 12” wide (side to side)
   3. 13” Height (ground up)

Disqualifications:

1. You can not pin any robot for more than 7 seconds.
2. You can not intentionally damage any other robot.
3. You can not flip or push a robot out of the arena.