

DEWBOT VI Mechanical Punchlist
16-February, 2010

1. Kicker
 - a. Revise release mechanism to achieve reliable operation with either a full-competition service life (~300 kicks) or with rapid change parts capable of between-match replacement
 - b. Do we mount existing Kicker or build a new one?
 - c. We need to move the Kicker to DEWBOT on 17-Feb (that's tomorrow)
2. Chain Guards
 - a. Cut PC (tonight)
 - b. Condition PC (thru tomorrow)
 - c. Form guards (Wednesday or Thursday after Robotics)
 - d. Trim guards (Thursday or Friday)
 - e. Mount guards (Friday) [I'm thinking Velcro neatly applied]
3. Side Guards
 - a. Purchase Eyebolts (today)
 - b. Drill holes & install Eyebolts (today)
 - c. Install elastic (today)
 - d. Test (today)
 - i. Over the bump
 - ii. Herding balls into the goal
4. Robot Top
 - a. Rough-cut top (can do tonight)
 - b. Design top in-detail (today)
 - c. Finish cutting (Wednesday or Thursday)
 - d. Install top (Friday)
5. Install possessor
 - a. Install properly (mechanical - today)
 - b. Wire
 - c. Test (while moving)
6. Front (side) ball guides (wire or wire-ties)
7. Permanently mount IR sensors
8. Design/Fab polymer mount for camera
9. Strap for Battery
10. Chain tensioner for steering?
11. Check Center-of-Mass
 - a. Add a little low mass if practical
12. Lube chains a little
13. Change wheel treads (just before shipping)
14. Cut spare chain sets (okay after shipping)
15. Fab other spare parts (okay after shipping)
16. Identify/assemble essential spare parts pack (okay after shipping)
17. Identify/assemble essential tool kit (okay after shipping)

Note for the last (4) items labeled “okay after shipping”: There isn’t a lot of time between shipping & Finger Lakes!