

DEWBOT VI Mechanical Punchlist

~~16-February, 2010~~ ~~17-February, 2010~~ ~~18-February 2010~~ ~~19-Feb 2010~~ 20-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~~ ~~additional development needed to address reliability the evening on 17 Feb. Completed. Kicker removed from proxy chassis for move to robot on 18 Feb~~
 - b. ~~Do we mount existing Kicker or build a new one? Existing Kicker to be mounted. A replacement needs to be fabricated as a spare part.~~
 - c. ~~We need to move the Kicker to DEWBOT on 17 Feb (that's yesterto day)~~ ~~in process~~
2. Chain Guards
 - a. ~~Cut PC (tonight)~~
 - b. Condition PC (thru today) ~~in process~~
 - c. ~~Cut counterframe (tonight)~~
 - d. Form guards (Wednesday or Thursday after Robotics)
 - e. Trim guards (Thursday or Friday)
 - f. 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)~~ ~~partially done~~
 - c. Finish cutting (Wednesday or Thursday)
 - d. Install top (Friday)
5. Install possessor
 - a. ~~Install properly (mechanical today)~~
 - b. ~~Wire~~ ~~partially done~~
 - c. Test (while moving)
6. ~~Fabricate & install passive Centeror~~
 - a. ~~Cut polycarbonate (today)~~
 - b. ~~Condition polycarbonate~~ ~~in process~~
 - c. ~~Build bending form~~
 - d. ~~Form passive Centerors~~
 - e. ~~Install~~
7. ~~Weight check (tonight) including Kicker, polycarbonate top,... (close to final wt)~~ 118.0 lb
8. Permanently mount IR sensors
9. ~~Design/Fab polymer mount for camera~~ ~~in process~~
10. ~~Strap for Battery~~
11. Chain tensioner for steering?
12. Generate graphics to be applied to DEWBOT top
13. Check Center-of-Mass
 - a. Add a little low mass if practical
14. Lube chains a little
15. ~~Find correct electrical connector for Gaming Adapter~~
16. Install & wire kicker limit switch
17. Assemble inspection documentation (esp. BoM)
18. Simulate inspection
19. Change wheel treads (just before shipping)
20. Cut spare chain sets (okay after shipping) 2 sets each of:
 - a. 32 links (31 + master link) for Pivot
 - b. 40 links (39 + master link) for steering
 - c. 44 links (43 + master link) for drive
21. Fab other spare parts (okay after shipping)
22. Identify/assemble essential spare parts pack (okay after shipping)
23. 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!

Completed ~~16-Feb~~

Added to list ~~17-Feb~~

Editions of ~~18-Feb~~

Editions of ~~19-Feb~~

Editions of ~~20-Feb~~