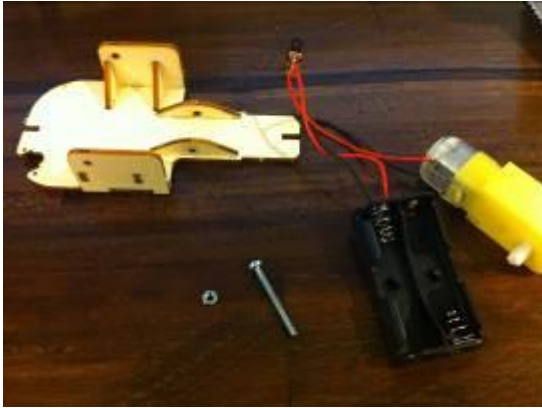
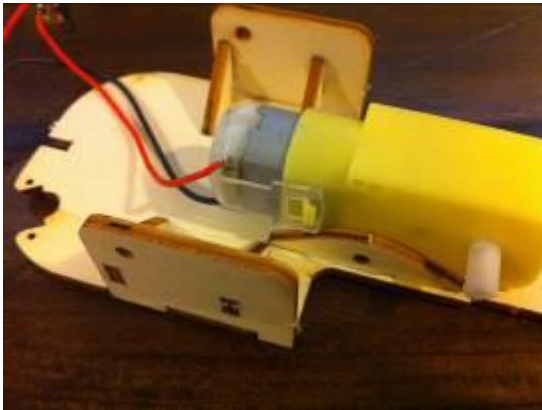


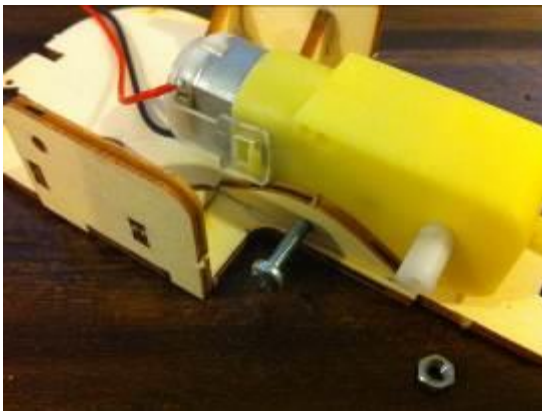
T-Rex lesson plan #2



Hand each student a servo, a 30 screw and a regular locknut.



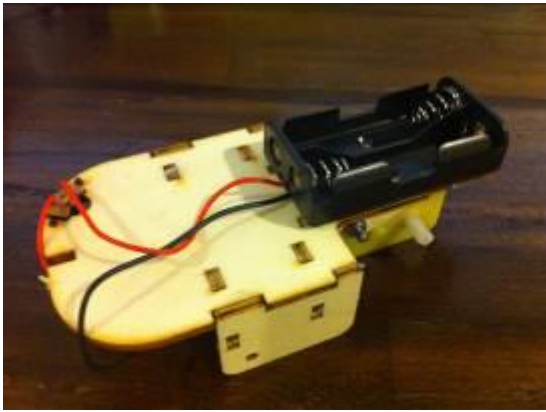
Place servo with the cables on the left, and the red cable on top. Remind students the rules for connecting the servo. After placing the servo, go by each student and make sure they did so correctly.



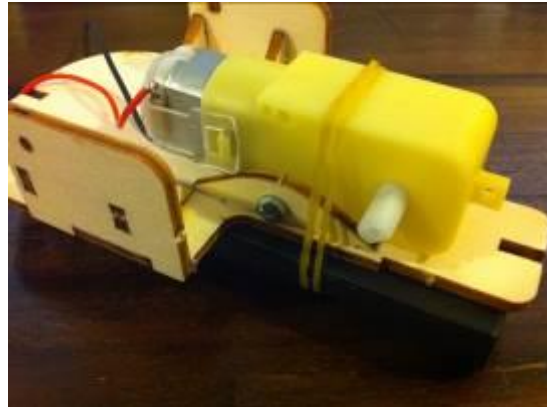
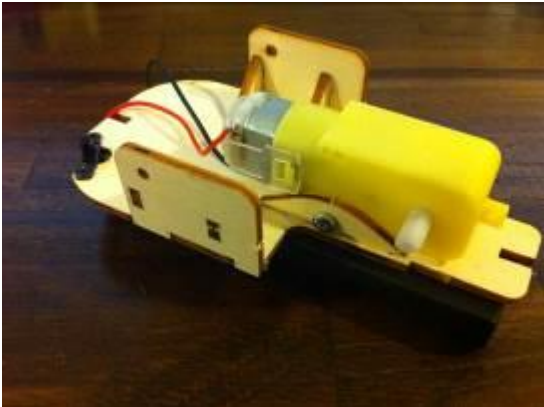
Insert screw from one side of the servo to the other. Tighten with the locknut. It's better to use a screwdriver.



Insert the switch to its place carefully in order not to rip the cables. Hand each student a bug screw, and screw the switch to its place.



Straighten the cables, and glue them under the servo. Notice that the servo's backside gets to the wood's tip. Otherwise, the dinosaur's balance will be off.



Then, stretch the rubber band previously removed from the servo around the battery place and servo in order to protect the gluing.



Hand each student two **small** crank shafts.
* Notice these cranks are unique to the T. rex model. Hand each student 2 bug screws. Place the cranks opposite from each other, screw all the way and undo a full turn and a half.



Once card is assembled, check directions and correct placements.



After assembling the card, disassemble leg parts as shown in the photo. Place legs on the table with front inside toes next to each other (short toes in front of each other as shown in the photo). This is the leg's front.



Glue one leg with the nail facing forward as shown in the photo. Notice that the short parts face forward and face each other.



Notice correct directions and placements.



After checking all students glued correctly, do the same thing with the second leg and check students' work again.

Time in minutes	Activity name	Comments
5	Attendance	- Mark attendance sheet - Indicate date
30	Assemble card and servo	- Explain rules
15	Assemble legs	- Notice correct directions
5	Collect parts	- Store in safe place
Total: 60 mins		

Motors distribution – rules and directions

- Remove rubber band before distribution, and keep them with you.
- Explain that if the servo rips it will not be replaced (you will, of course, replace damaged servo. This is just a good warning).
- Go over safety and use rules as indicated here:
- Students **may not** hold servos in the air. Assembly will be done on the table only.
- Students may not walk around with servo or card. If they want instructor to check assembly, they must call him/her over.
- After placing servo, do not touch the card unless directed otherwise.
- Place servo with red cable on top!!!