Grand Blanc High School Robotics Team
2015 Mechanical Deliverable
Claw Bot Chassis Assembly Challenge

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Mentor(s) to ask if you have questions about this challenge: Clinton Bolinger OR Robin Barrie OR Cathy Fillwock

Before Beginning This Challenge:

1. Choose ONE person to work with on this project.
    - You must work TOGETHER on this challenge.
    - You should not "divide and conquer" to have one person do all of the assembly work, while the other takes notes.
    - BOTH students should work on the assembly

Engineering Notebook Entry Instructions:

1. You may work together to create your journal entries, but you must BOTH write an entry (not make one and photocopy it for the other person) OR you may choose to work independently on your journal entries
2. Entries should be developed while you are building, and document some of the assembly process
3. Answer the following questions:
    - Did you enjoy putting together the ClawBot? Why or why not?
    - What has the ClawBot assembly taught you that will be helpful in prototyping and designing other robots?
    - What improvements would you make to the ClawBot Chassis to make it a better design and Why?

Challenge Instructions:

1. Check to ensure that you have all of the materials needed (pages 3-4)
    - Gather the tools needed (page 5)
    - Tools can be found in the tool box
    - If a tool is not located in the toolbox, then look in your Team's VEX tool box and work area
2. The Team owns ample tools to complete this task. We will not be purchasing more because they are "missing".
3. Follow the assembly process on pages 5, 6, 8 through 11 and 16
    - NOTE: You will **not** be:
        Building the Upper Structure OR
        Completing Steps: 4-6, 12-13, 18-27
4. PLEASE do not write on provided materials
5. The instruction manual can be found here, for your reference:
    http://content.vexrobotics.com/docs/instructions/276-2600-CLAWBOT-INST-0512.pdf

Once your assembly is complete:

1. Ensure that your Engineering Notebook entry is complete
2. Bring your assembled ClawBot to Clinton for inspection
3. Ask Clinton to approve your Engineering Notebook entry and have your deliverables checklist validated.
4. Work with your partner to disassemble the ClawBot completely
5. Put tools away in the Team Tool Box (where they SHOULD go, not necessarily where you found them)
6. Put the ClawBot materials away in the bin designated for this deliverable on the black shelf in the conference room.
7. Return this sheet to the Mechanical Deliverables Binder in the green bin, located on the black shelf in the conference room.
8. Leave your workspace cleaner than it was when you found it