

VEX V5 Override: Session 2 - Building Station

Activity: Build the Override Hero Bot, Flex.

The Hero Bot, Flex, will be built in stages so each person on the team gets a chance to build. Building in pairs is recommended for ease and accuracy of building. *Check each and every step as it is completed in the build instructions to ensure Flex is built correctly.*

Complete the build instructions based on where the previous team members left off. Adjust these building stages as needed to match the number of members on your team.

[Build Instructions for Flex can be found here.](#)

- **Stage 1:** Steps 1 through 35
- **Stage 2:** Steps 36 through 68
- **Stage 3:** Steps 69 through 89
- **Stage 4:** Steps 90 through 107
 - This stage also includes testing the build by:
 - i. [Attaching the Battery](#)
 - ii. [Pairing the Controller and Brain](#)
 - iii. [Starting the Built-In Drive Program to test the build](#)
 - iv. Driving Flex on the floor to pick up a Pin or Cup and move it to another location.
 - If any element of the build does not work as expected, go back and check the build instructions, then make repairs as needed.



Feeling Stuck?

- Print out and use the [V5 Printable Parts Ruler](#) to help you locate the correct size of pieces in the kit.
- Reference the [V5 Competition Starter Kit Poster](#) to help you as you are building.

Discussion Questions While Building

- How do you think the section you are working on in your group relates to the whole build?
- What is one pro-tip you would give to a group building another stage of the robot?
- How do you think Flex collects, carries, and scores Pins?

Activity Checklist

- ☐ Each team member built part of the robot.
- ☐ Stage 1 steps complete
- ☐ Stage 2 steps complete
- ☐ Stage 3 steps complete
- ☐ Stage 4 steps complete
- ☐ Flex drives, grips and lifts a Pin or Cup.