

## Calibrate a VEX Joystick

1. The Joystick must be “Linked” to the Cortex Microcontroller using the VEXnet Keys.
2. Hold the “6U” Back Switch depressed.
3. While the “6U” Back Switch is depressed, use a small Allen Wrench (1/16” or smaller) or similar small straight tool to depress and hold the CONFIG Switch.
4. Hold both Switches depressed until you see the Joystick LED Flash RED and GREEN – you can now release both Switches.
  - a. There is a 10 second time limit to complete the following steps 5 and 6.
5. Now move both Joystick Pots to the maximum position desired in all 4 directions – Up, Back, Left, and Right.
  - a. If a movement is not detected in all 4 directions, a timeout will occur after about 10 seconds and the Cal Mode will be discontinued and the VEXnet LED will briefly Flash Red.
  - b. The Joystick LED will continue to Flash RED and GREEN during the calibration process.
6. After movement is detected in all 4 directions, the Joystick LED will be ON and Solid GREEN.
  - a. To “Save” the Calibration, depress and release the “8U” Top Switch Button.
  - b. If the calibration is accepted and Saved, the Joystick LED will start Flashing Fast GREEN for a few seconds.
  - c. If the Calibration is not Saved, a timeout will occur after about 10 seconds and the Cal Mode will be discontinued and the VEXnet LED will briefly Flash Red.
  - d. To cancel a calibration, depress and release the “7U” Top Switch Button. The Cal Mode will be discontinued and the VEXnet LED will briefly Flash Red.
  - e. If the Cal Mode is discontinued or saved, the Joystick LEDs will resume their normal function after the VEXnet LED briefly Flashes.
7. If Joystick Master Firmware is downloaded into the Joystick, the Joystick will need to be re-calibrated.

