

Getting started with KIBO



1. If this is your first time using your KIBO, insert 4 AA batteries into the battery case. The red scanner light will start blinking.



Screwdriver and batteries not included

2. Insert the motors and wheels. Orient the motors so that the green dot shows through KIBO's transparent bottom.



3. Sequence some blocks into a program. Every program needs a BEGIN block and an END block.



4. Push the triangular button to turn KIBO on. The red scanner light will blink.

KIBO will turn itself off if left alone for a few minutes.



5. Use KIBO to scan the bar codes on the programming blocks, left to right, one at a time*. If your scan was successful, KIBO will beep and the scan LED will glow green after each block.

(A red "scan LED" indicates a scanning error.)

("scan LED")



*See scanning tips on the back of this guide.

6. Push the triangular button to tell KIBO to go.

To re-run your program, push KIBO's button again.

To change your program: Re-arrange the blocks, re-scan, and push the button. Watch KIBO go!

7. Decorate your KIBO.

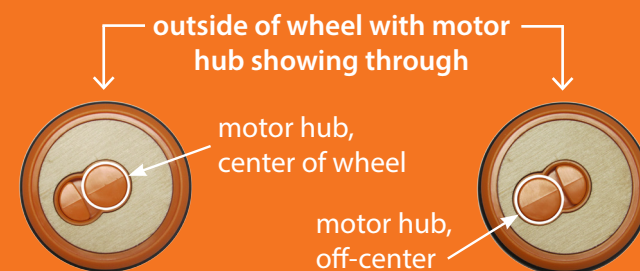
Decorate or dress up your KIBO to look like a storybook character and program it to act out the story.



Fun things to try

(1) Try inserting the motors "upside-down," with the green dot **not** showing, and see what happens.

(2) Insert the motors into the wheels so that the motors' axles are *off-center*, relative to the center of the wheels. See what happens!



Check out more fun challenges and activity guides at resources.kinderlabrobotics.com.

Good things to know

KIBO's lights can tell you lots of useful things:

- KIBO's red scanner light and triangular button will blink when KIBO is ready to *scan* a program – OR – when KIBO is ready to *run* a program. The button will stop blinking while KIBO is scanning a program; the red scanner light will stop blinking while KIBO is running a program.
- When KIBO's triangular button blinks, it means that KIBO has a program stored in its memory. The triangular button will go dark while KIBO is scanning a new program, and also after inserting new batteries.
- You can put KIBO to sleep by pressing and holding the triangular button for several seconds.

Follow us on Twitter: @KinderLabRobot



Visit us on Facebook
facebook.com/KinderLabRobotics

Join our KIBO community!
Sign up for *Child's Play*, our email newsletter, for KIBO news, activity ideas, classroom tips, and more, at kinderlabrobotics.com.

Uh-oh ...
If the red scanner light is not blinking when it should be, it usually indicates a problem with the batteries. Remove and re-install the batteries. If that doesn't help, replace the batteries with new ones.
A tri-tone sound and a red scan LED means that an error occurred. KIBO may have mis-scanned, or there may be an error in your program. Try scanning again or re-arranging your blocks. Have fun experimenting!
If KIBO is turning the wrong way, or going backward when it should be going forward, check the motors to make sure that the green dots are showing through KIBO's transparent bottom.



KIBO's motor modules are designed to turn KIBO's wheels; they are not designed to carry a lot of weight. So, please don't force KIBO to go faster than it wants, and don't push down on KIBO's body when its wheels and motors are installed. These behaviors can damage the motor modules. Our warranty doesn't cover damage caused by improper motor use.

Take care of your motor modules!

To scan, hold KIBO 2-4" away from the programming blocks. Shine the red scanner light onto the bar code. It's ok if the light is a little "bigger" than the bar code.
If KIBO won't scan, try changing KIBO's position slightly. Move it slightly closer or farther away from the block and try changing the angle a little bit. Try scanning the side of the block instead of the top.

Scanning tips

Tips & Troubleshooting



KIBO body



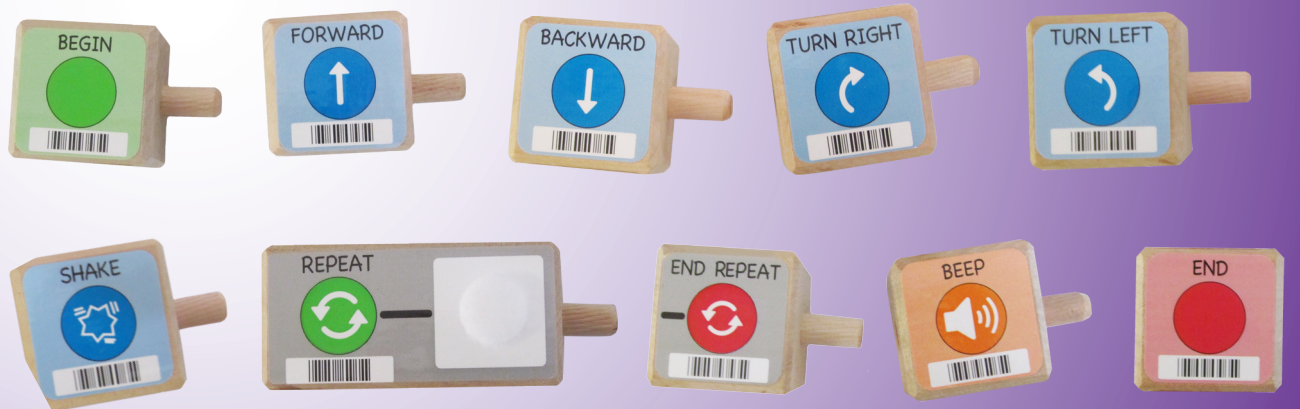
parameter cards (4)



motor modules (2)



wheels (2)



programming blocks (10)

Colors of some components may vary.
Additional parts available at shop/KinderLabRobotics.com.
FAQs and complete parts list at kinderlabrobotics.com/faqs.