



What's New with *Robotics with the Boe-Bot v2.0*?

Robotics with the Boe-Bot v2.0 is the newly revised and expanded version of our most popular Stamps in Class curriculum. New features of the text include:

- New chapter for beginners that introduces BASIC Stamp programming - no prerequisite required.
- Expanded – now includes 8 Chapters and 41 Activities. Was 188 pages, now 319 pages.
- All new programs in PBASIC 2.5, featuring DO...LOOP, IF...THEN...ELSEIF...ELSE, and SELECT...CASE code block instructions
- Programs designed specifically for the fast and responsive Parallax Continuous Rotation Servos.
- Audio and LED light indicator circuits for low-battery brownout, infrared interference, and sensor trouble-shooting
- Redesigned tactile whisker contact switches that reduce “blind spots”
- New photoresistor experiments now demonstrate these concepts: digital measurements using resistor divider circuits, and analog measurements with an RC circuit and decay time.
- Improved remote object and distance detection with shielded, frequency-matched infrared LED emitters and detectors that increase functional distance

The activities in ***Robotics with the Boe-Bot v2.0*** require a few parts not previously used with Robotics! v1.5. If you already have a Boe-Bot (#28132), you can conveniently obtain these parts by ordering online. Enter “28105 in the Product Search field at www.parallax.com or visit the Robotics Component Shop.

Boe-Bot Upgrade Kit (#28105)		
Parallax Stock Code	Description	Quantity
150-02020	Resistor, 2 K Ω , CF, 5%, ¼ watt	2

150-02210	Resistor, 220 Ω , CF, 5%, ¼ watt	5
150-04720	Resistor, 4.7 K Ω , CF, 5%, ¼ watt	1
700-00060	Standoff, ¼" round aluminum, 1" long, 4-40	4
710-00007	Screw, pan head, Phillips, 7/8", 4-40	2
713-00007	Spacer, round aluminum #4, ½"	2

Several other robotics parts were improved before the recent text revision. If your Boe-Bot came from Parallax before July 2003, you may also need to replace your servos, infrared emitters, or whisker wires for best results. *Robotics with the Boe-Bot v2.0* was written specifically for Parallax Continuous Rotation Servos. If you are not sure which parts you have, check out Appendix J to *Robotics! v1.5* for details.

Servos, Whiskers, and LED Emitter Assemblies		
Parallax Stock Code	Description	Quantity
900-00008	Parallax Continuous Rotation Servos	2
350-00003	Infrared LED – T1 3/4	2
350-90000	LED Standoff	2
350-90001	LED Light Shield	2
700--00056	Whisker wires	2

All of the parts listed on this page can be purchased through the Robotics Component Shop at www.parallax.com (on the home page, select Component Shop from the Robotics menu).

For Tech Support call toll-free at 1-888-99-STAMP or email support@parallax.com. For pricing and ordering, call the Parallax Sales Team toll-free in the U.S. and Canada at 1-888-512-1024 or email sales@parallax.com.