Introduction to the Boe-bot

Hardware Disassemble and Parts Check

Disassemble your Boe-bot leaving microprocessor chip intact. Go through the list below and check/confirm the number of parts you have for your bot. The intent here is to get to know your bot parts and add missing components if possible prior to finishing this task. See Page 346 of student manual for graphic description.

# of	Description	# Count/Condition	# Count/Condition
2	1k ohm (BrBkR)	_____	_____
2	2k ohm (RBkR)	_____	_____
4	10k ohm (BrBkO)	_____	_____
8	220 ohm (RRBr)	_____	_____
4	470 ohm (YVBr)	_____	_____
2	4.7k ohm (YVR)	_____	_____
2	100k ohm (BrBkO)	_____	_____
2	0.01uF Capacitor (Little & Yellow)	_____	_____
2	0.10uF Capacitor (Little & Brown)	_____	_____
1	1000uF Capacitor Electrolytic (Cylinder)	_____	_____
1	3300uF Capacitor Electrolytic (Cylinder)	_____	_____
2	Green LEDs	_____	_____
2	Red LEDs	_____	_____
2	Yellow LEDs	_____	_____
2	Photo Resistors	_____	_____
2	Tact Switches (Buttons)	_____	_____
1	PIEZO Sound Generator	_____	_____
2	3-Pin Header	_____	_____
1	Transistor 2N3904	_____	_____
1	Digital Pot AS5220-B10 (Black Chip)	_____	_____
10	3" Jumper Wires	_____	_____
2	Parallax Standard Servo	_____	_____
1	B.O.E Development board with BS2	_____	_____
1	10k Manual Potentiometer (Dial)	_____	_____
2	Whiskers	_____	_____
2	IR LED's (Clear LEDs)	_____	_____
2	IR LED holder (2 parts)	_____	_____
2	IR LED Detectors	_____	_____
2	TIRES (Black Rubberbands)	_____	_____
2	½ in. spacers (Silver Cylinder)	_____	_____
2	White plastic o-rings	_____	_____
1	Partially assembled Boe-Bot	_____	_____
2	Long Screws	_____	_____
1	Parallax Screw Driver	_____	_____
1	Power Supply	_____	_____
1	Communication Serial/USB cable	_____	_____

Student Name and Signatures:

Print **Sign**

_____ _____

Disassembled Completed Check Date _____ Teacher Confirmation _____

Part Descriptions Research:

For the following major components describe what their purpose and function is

1. Resistor

2. Capacitor

3. LED

4. Photo Resistor

5. Tact Switch

6. PIEZO Sound Generator

7. Transistor

8. Potentiometer

9. Jumper Wire

10. Servo

11. IR LED

12. IR LED Detector

13. Power Supply