

## Things that go Boom!



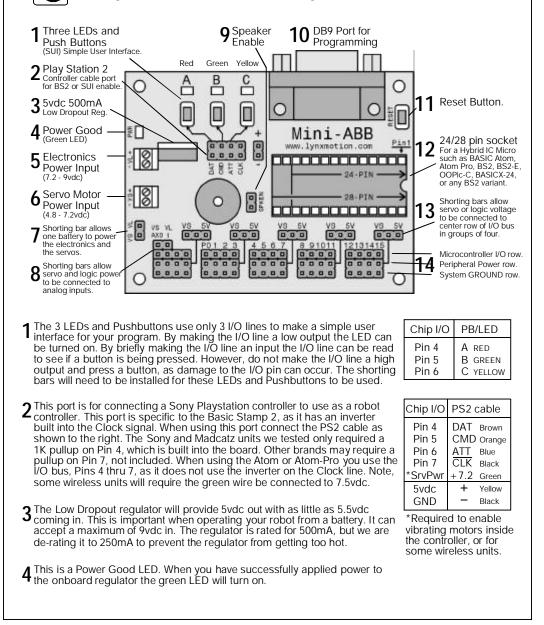
Caution! Read this quick start guide completely before wiring and applying power to the board! Errors in wiring can damage the Bot-Board, Hybrid micro-controller, and any attached peripherals.



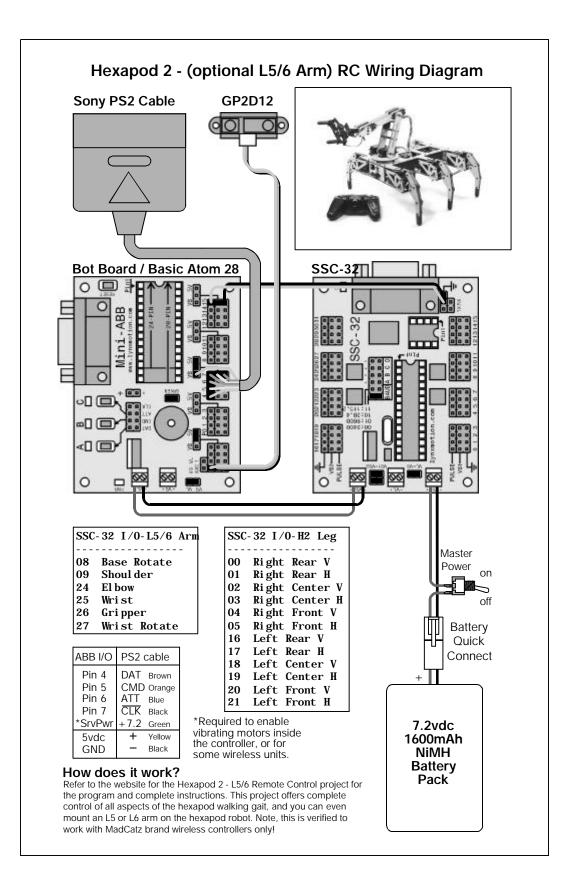
Caution! Never reverse the power coming in to the board. Make sure the black wire goes to (-) ground, and the red wire goes to (+) Vlogic, or Vservo. Never connect peripherals when the board is powered on.

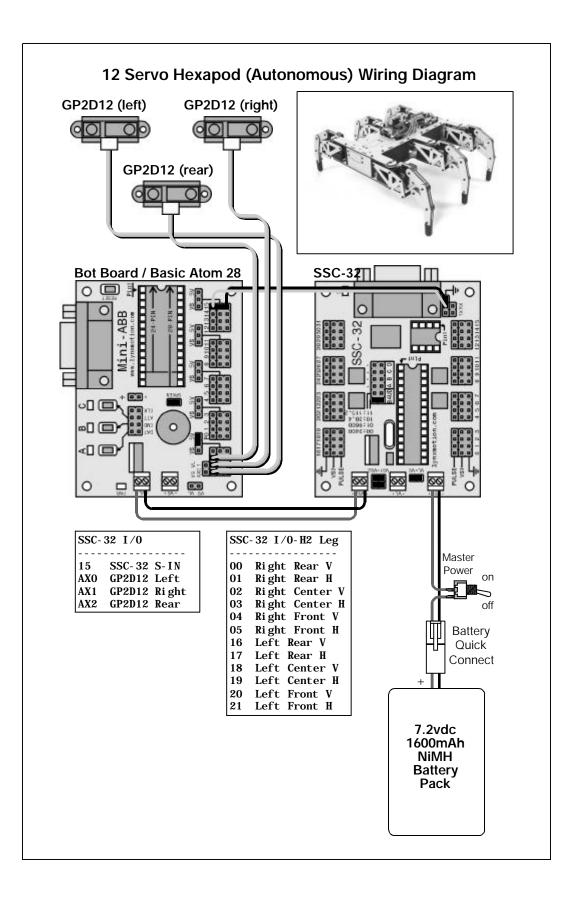


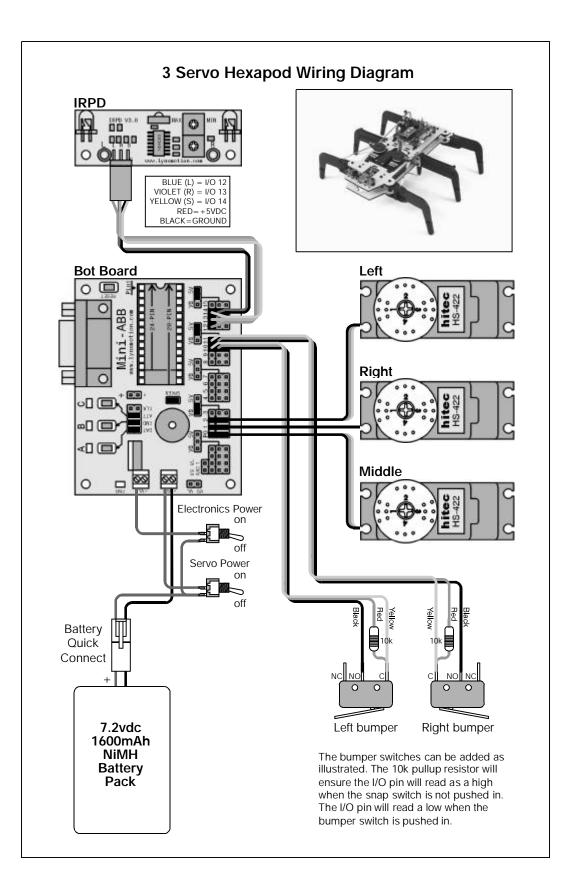
Caution! The onboard regulator can provide 250mA total. This includes the Hybrid microcontroller chip, the onboard LEDs, and any attached peripherals. Drawing too much current can cause the regulator to overheat.

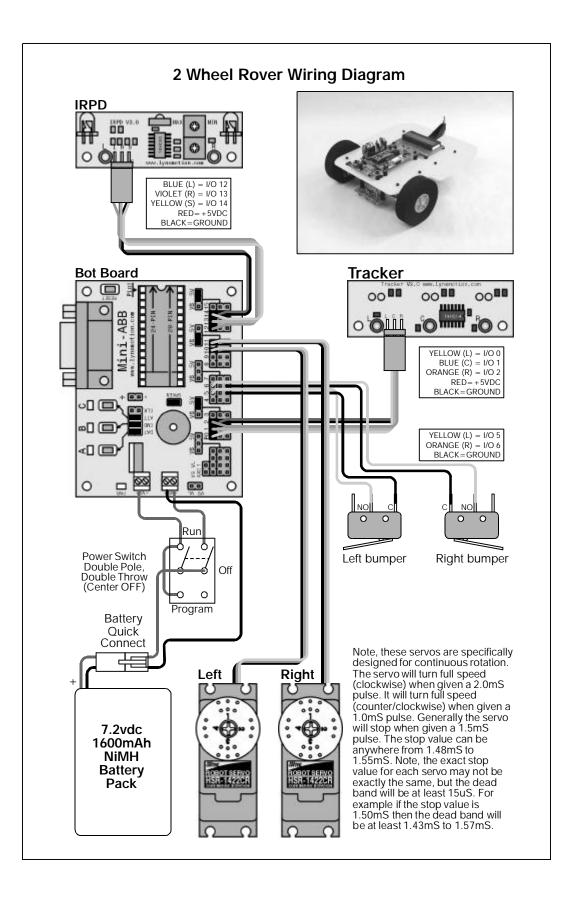


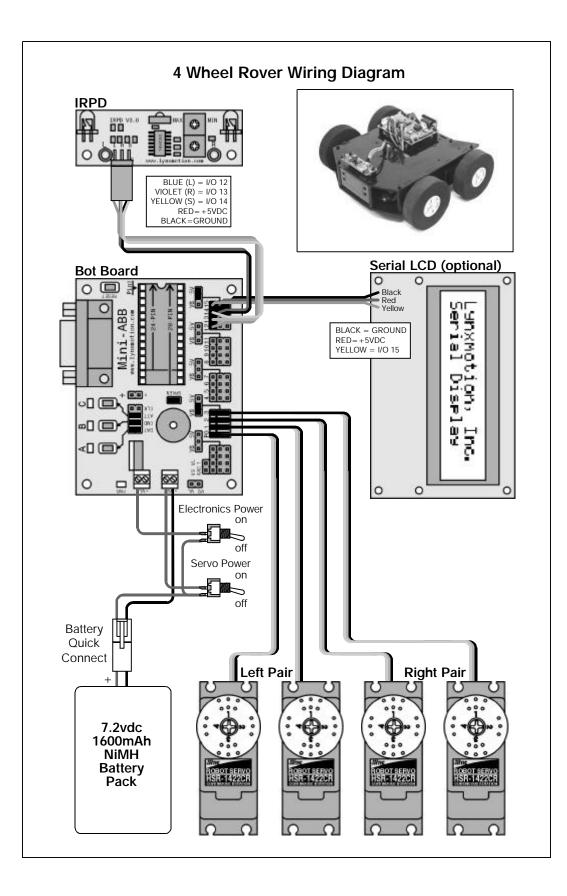
<b>5</b> This is the Electronics F or VL. This input is norr	Power Input. It is also referm nally used with a 9vdc bat	red to as the Logic Voltage, tery connector to provide	Board	Input
	nd anything connected to the 5vdc lines on the to isolate the logic from the Servo Power Input.		VL+ VL-	RED BLACK
6 This is the Servo Motor Power Input. It is also referred to as VS. It can be 4.8vdc to 7.2vdc. However, some micro servos will not tolerate more than 6vdc. This input is used to provide power for the servos only, or to provide power to both logic and servos (see 7).			Board	Input
			VS+ VS-	RED BLACK
simply connects the VS option do not use the V	•	ition, when using this		
${f 8}$ This allows the VL and/or VS inputs to be connected to two of the Atom-28's analog inputs through a 4:1 voltage divider. For example, if the battery			Chip I/O	V-Input
voltage were 9vdc the analog input would see 2.25vdc.		AX0 AX1	V-Servo V-Logic	
<b>9</b> This shorting bar enables the onboard speaker. To use the speaker, send the appropriate sound generating command to Pin 9. Note, the I/O pin does not drive the speaker directly, it just turns on a buffer transistor.				
<b>10</b> Simply plug a straight-t serial port on your PC f	hrough M/F DB9 cable from Front downloading programs	m this plug to a free 9 pin and receiving debug info.		
<b>11</b> This Pushbutton will restarting a different prog	set the micro when pressed ram depending on which I	d. This can be useful for Pushbutton is pressed.		
<b>12</b> This is where you plug Atom-Pro, any Basic St	n the Hybrid microcontroll amp 2, the OOPic-C, BASI	er. This can be an Atom, CX-24, etc.		
13 This is where you confi the onboard regulator) done in banks of four I/ row with a 5vdc periphe	gure the I/O bus center row or VS (direct from the Serv O pins. Caution, applying eral installed will cause dar	the servo voltage to this		
14 This is where you conn microcontroller. Use ca connect anything while	ect servos, motor controlle ution when connecting any the power is on.	ers, sensors, etc. to the ything to the I/O bus. Never		
Shorting Bar Jum	pers and Connectors	s at a glance		
Applies +5vdc to the I/O bus.	Applies VS to the I/O bus.	Applies VS and VL to analog inputs 0 and 1.	Enables t and Push	
			AND	)
Example servo	PlayStation 2 cable for Basic Atom.	PlayStation 2 cable for Basic Stamp 2.		
VS 5V P0123 Yellow Red Black	Yellow Black	Yellow Black		
	Black Blue Brown	Black Blue Prown		

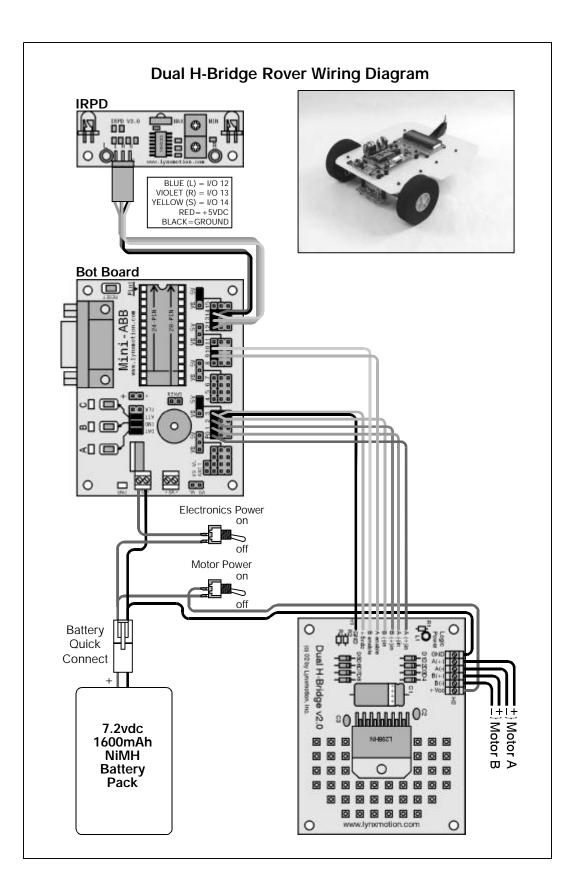


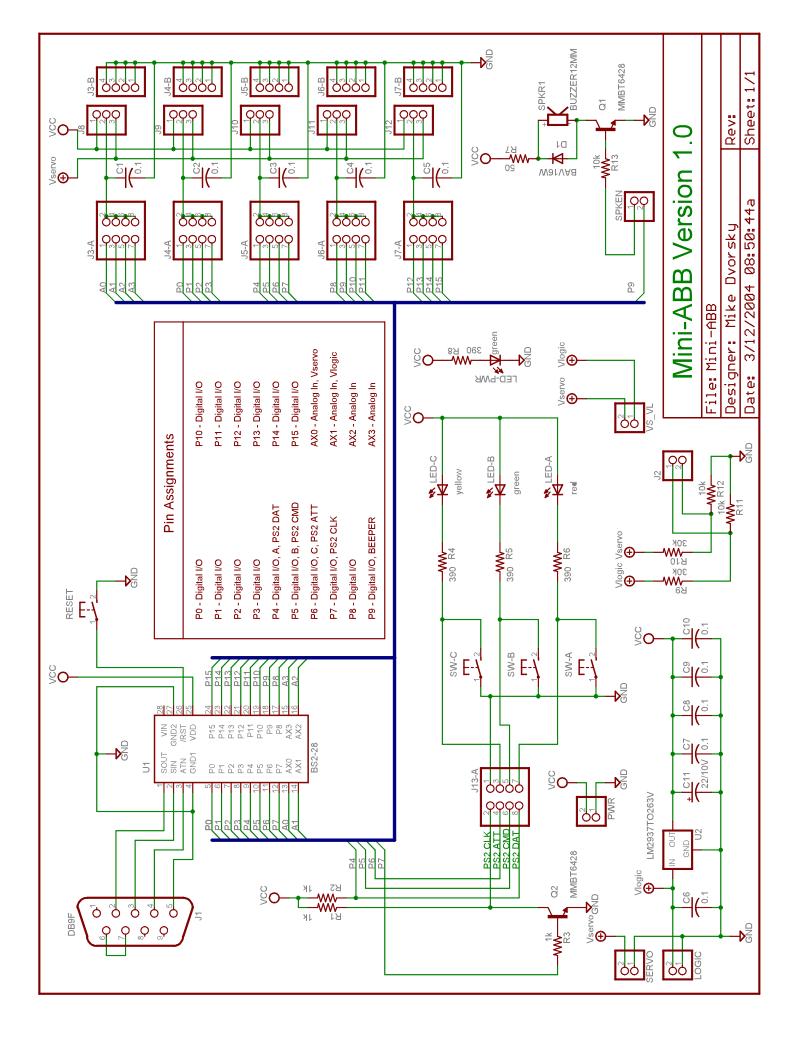












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