

Lynxmotion, Inc.

PO Box 818 Pekin, IL 61555-0818 Tel: 309-382-1816 (Sales) Tel: 309-382-2760 (Support) Fax: 309-382-1254 sales@lynxmotion.com tech@lynxmotion.com http://www.lynxmotion.com

Users Manual ABB-01 Ver 2.0

Things that go Boom!



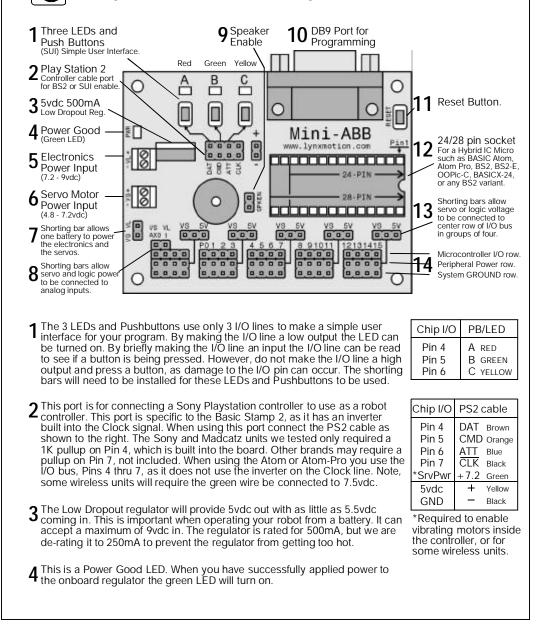
Caution! Read this quick start guide completely before wiring and applying power to the board! Errors in wiring can damage the Bot-Board, Hybrid micro-controller, and any attached peripherals.



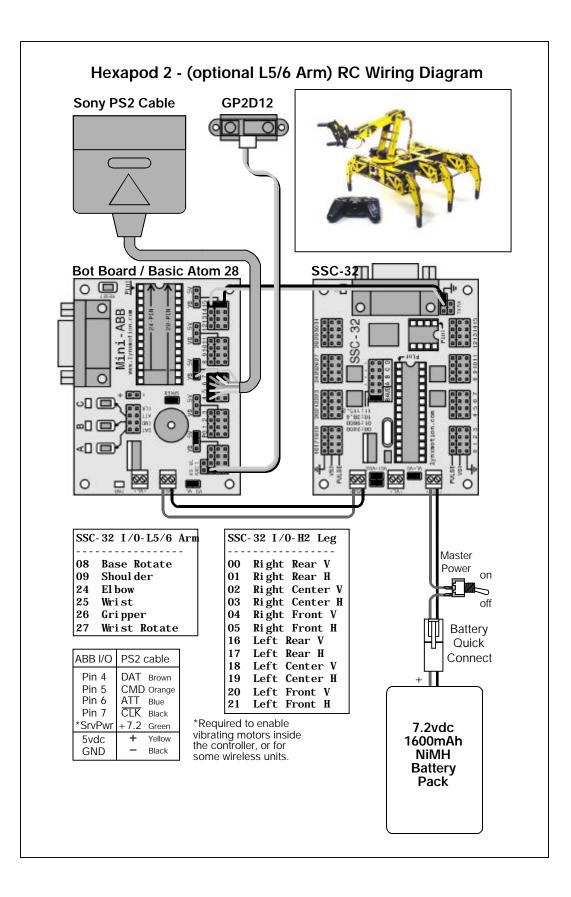
Caution! Never reverse the power coming in to the board. Make sure the black wire goes to (-) ground, and the red wire goes to (+) Vlogic, or Vservo. Never connect peripherals when the board is powered on.

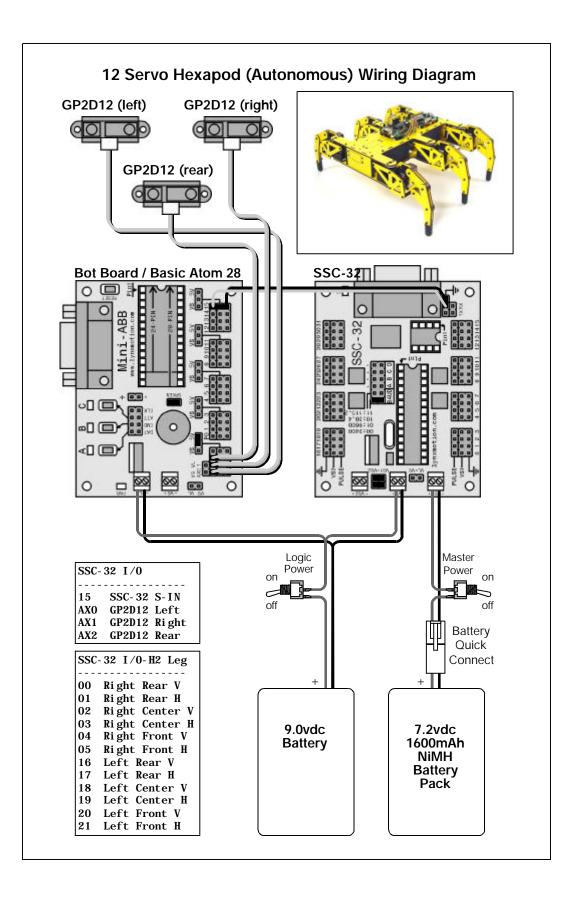


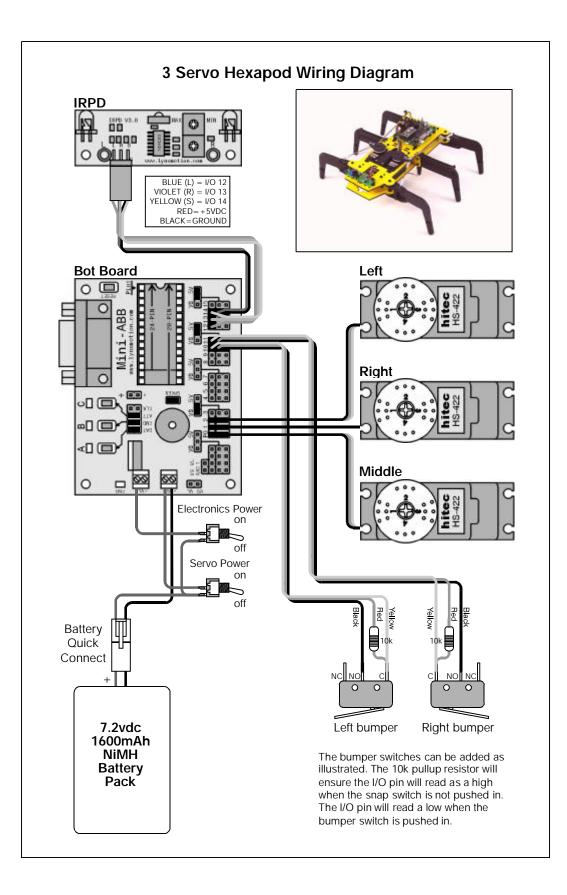
Caution! The onboard regulator can provide 250mA total. This includes the Hybrid microcontroller chip, the onboard LEDs, and any attached peripherals. Drawing too much current can cause the regulator to overheat.

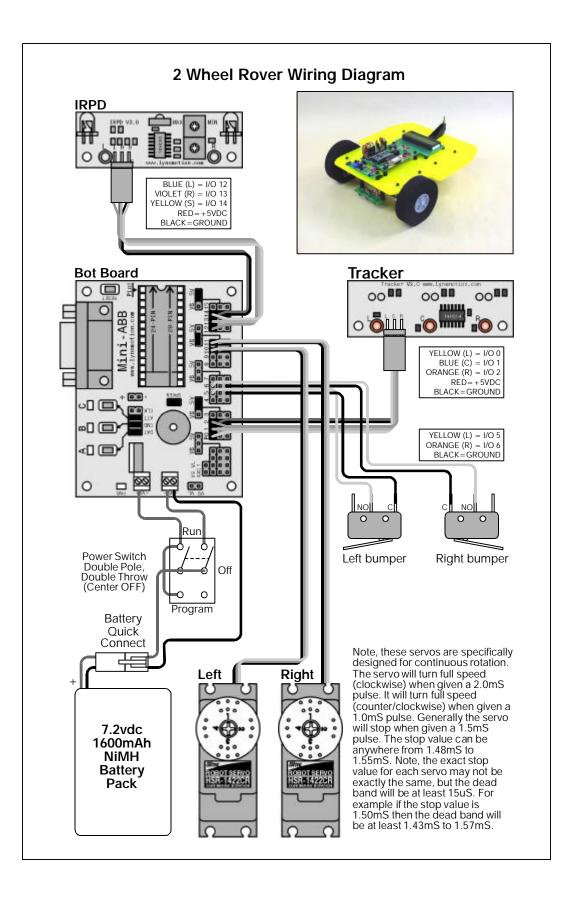


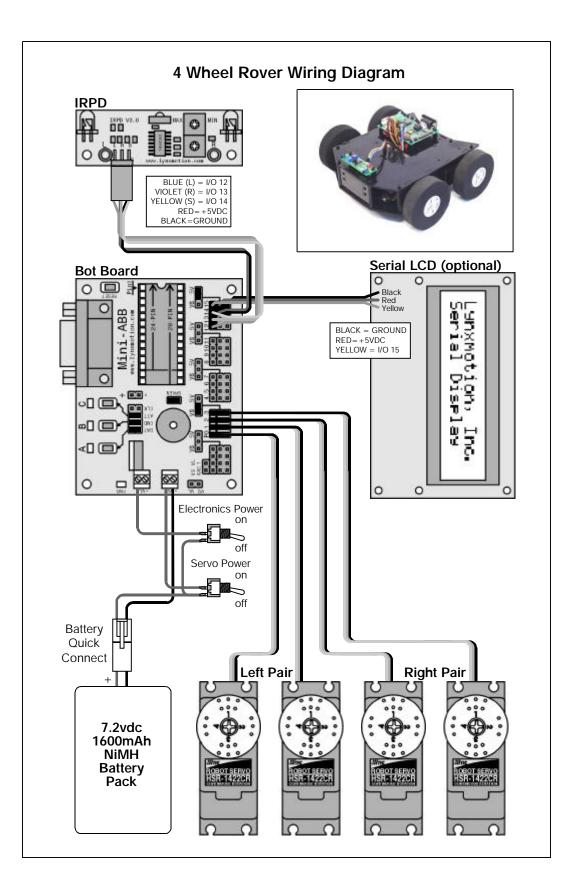
	ower Input. It is also referrent ally used with a 9vdc batte nd anything connected to to isolate the logic from t	the 5vdc lines on the	Board VL+ VL-	Input RED BLACK
6 This is the Servo Motor Power Input. It is also referred to as VS. It can be 4.8vdc to 7.2vdc. However, some micro servos will not tolerate 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 VS+ VS-	Input RED BLACK
	the Servos and Logic fro nput to the VL input. Caul input.			
	r VS inputs to be connect 4:1 voltage divider. For ex nalog input would see 2.2		Chip I/O AX0 AX1	V-Input V-Servo V-Logic
9 This shorting bar enable appropriate sound gene drive the speaker directly	s the onboard speaker. To rating command to Pin 9. ,, it just turns on a buffer to	Note, the I/O pin does not	L	3
$10{\rm Simply}$ plug a straight-through M/F DB9 cable from this plug to a free 9 pin serial port on your PC for downloading programs and receiving debug info.				
11 This Pushbutton will research starting a different program	et the micro when pressec am depending on which P	I. This can be useful for Pushbutton is pressed.		
12 This is where you plug ir Atom-Pro, any Basic Sta	h the Hybrid microcontrolle mp 2, the OOPic-C, BASI	er. This can be an Atom, CX-24, etc.		
	ure the I/O bus center row r VS (direct from the Serve) pins. Caution, applying t ral installed will cause dan	he servo voltage to this		
14 This is where you conne microcontroller. Use cau connect anything while t	ct servos, motor controllei tion when connecting any he power is on.	rs, sensors, etc. to the thing to the I/O bus. Never		
Shorting Bar Jump	ers and Connectors	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	
Example servo connection.	PlayStation 2 cable for Basic Atom.	PlayStation 2 cable for Basic Stamp 2. Yellow Black		

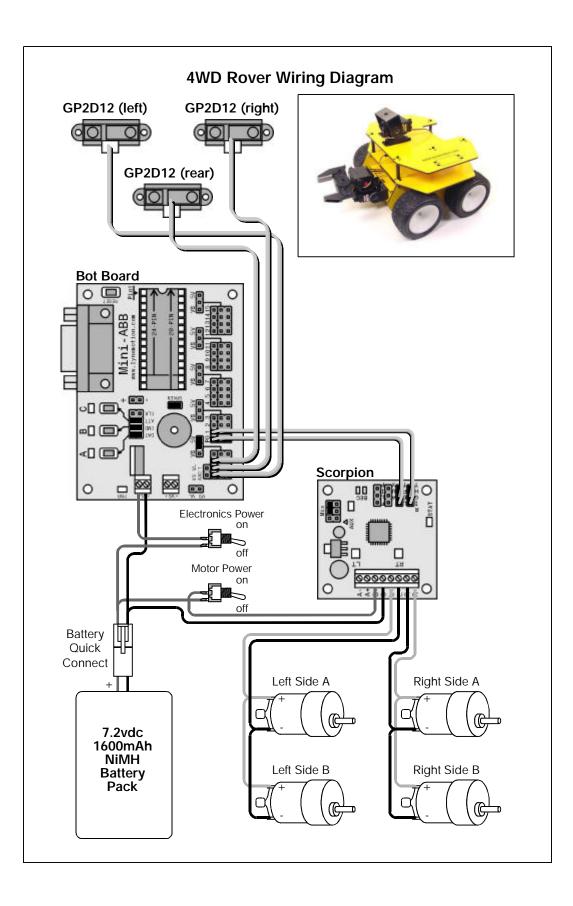


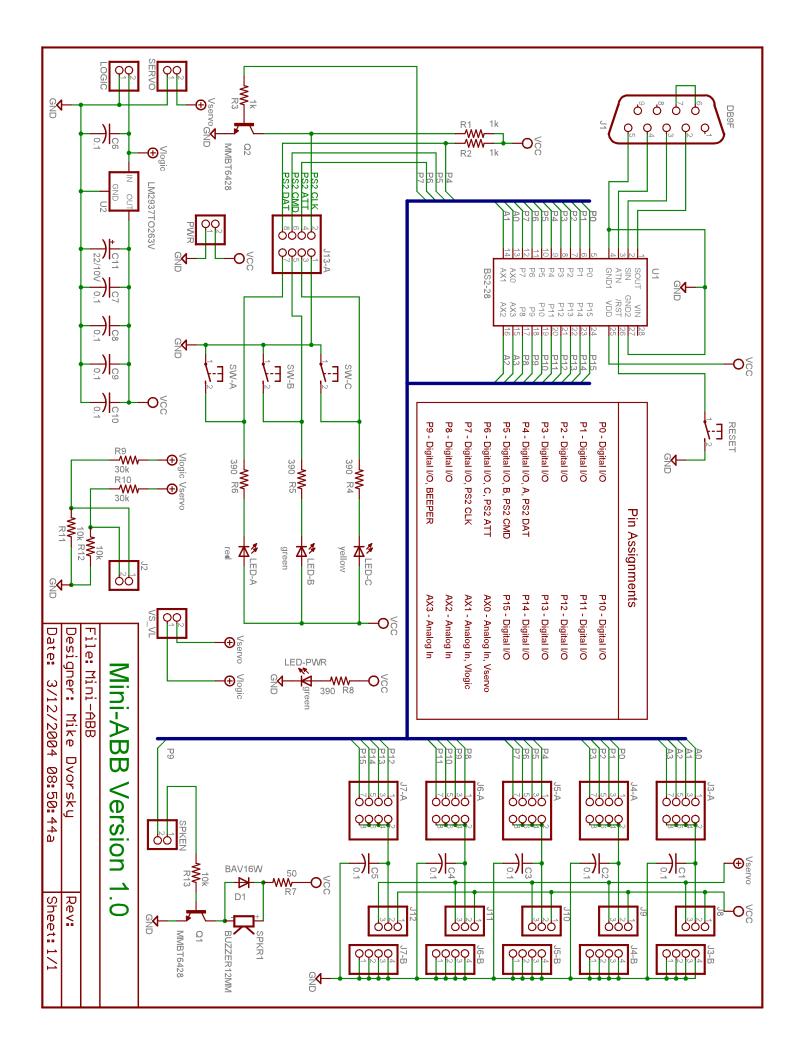












Copyright © 2004 by Lynxmotion, Inc.