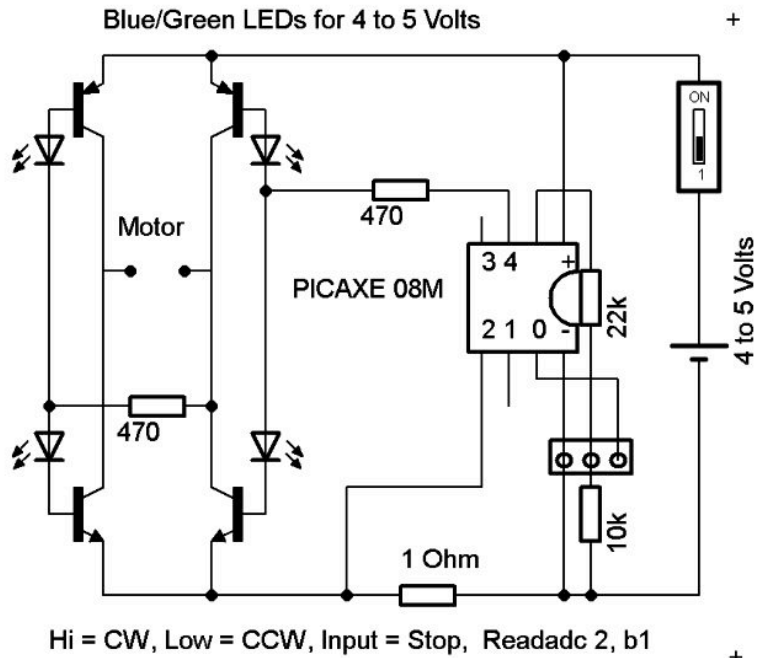
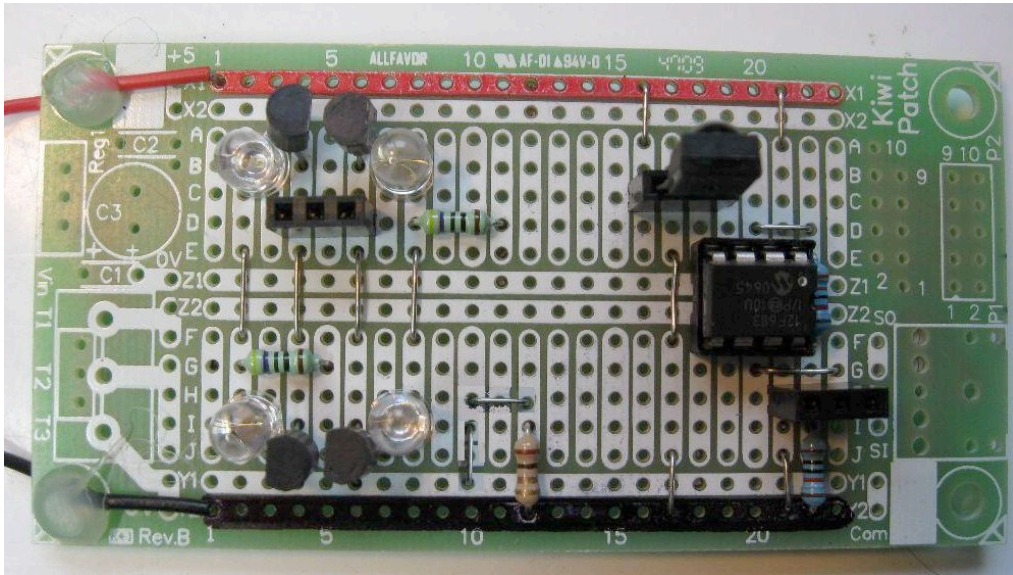


## Single Pin ~ H Bridge ~ Current Sense Motor Load



- Each side of the H Bridge can be switched HIGH or LOW by making pin 4 High or Low
- Both sides of the H Bridge can be switched OFF completely using the INPUT 4 command
- Write a program that senses the motor load current by measuring the voltage drop across the 1 ohm resistor and the READADC 2, b2 or the READADC10 2, b2 command
- Use this information to make a system that can measure the load. Make a system with a safety feature that can auto reverse when a stall or overload is detected ( e.g. garage door or lift overload )
- Tip... Remember that the initial start peak current will look like a stall hi load condition



- Refer to other templates to use a push button or Ird Remote to control the circuit
- Refer to the Help Section PICAXE Manuals for programming ideas and circuits
- Try accelerating and decelerating the motor using the PWM command.
- The 100nF capacitor **MUST** be a ceramic type and soldered **DIRECTLY** to the motor brushes. This is **ESSENTIAL** to prevent sparks and interference affecting the PICAXE
- A 1N4148 +ve in place of the picaxe +ve link and capacitor across the chip to stop noise from resetting the picaxe