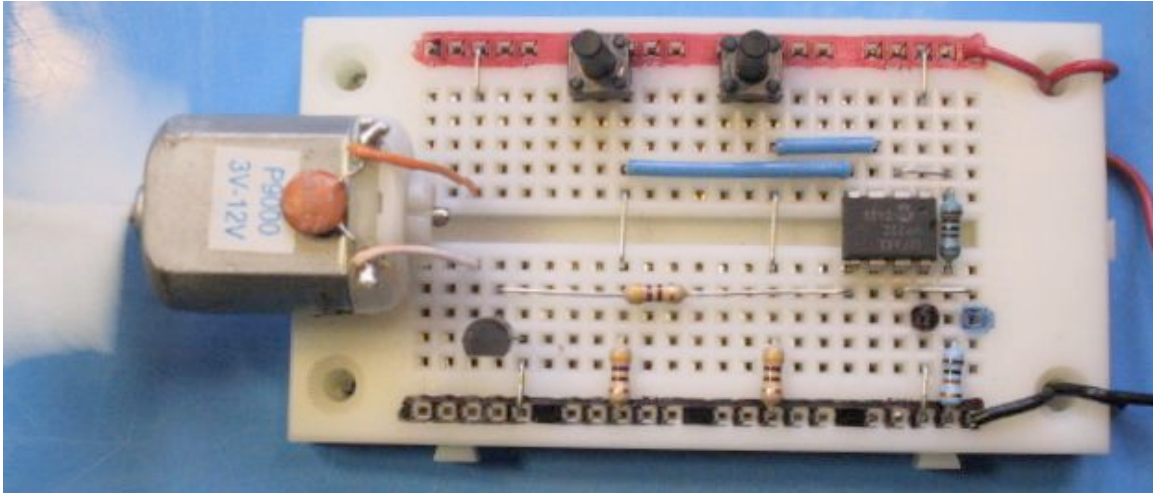


DAC Motor Speed Control



Loopa:

pwmout 2,64,b0

debug b0

if Pin3 = 1 then Increase_Speed

if Pin4 = 1 then Decrease_Speed

goto Loopa

'PWM pin 2 by an amount = b0

'Send data to the PICAXE Screen (F6)

'If LH PB Switch is pressed go increase b0

'If RH PB Switch is pressed go decrease b0

Increase_Speed:

b0 = b0 + 5

goto loopa

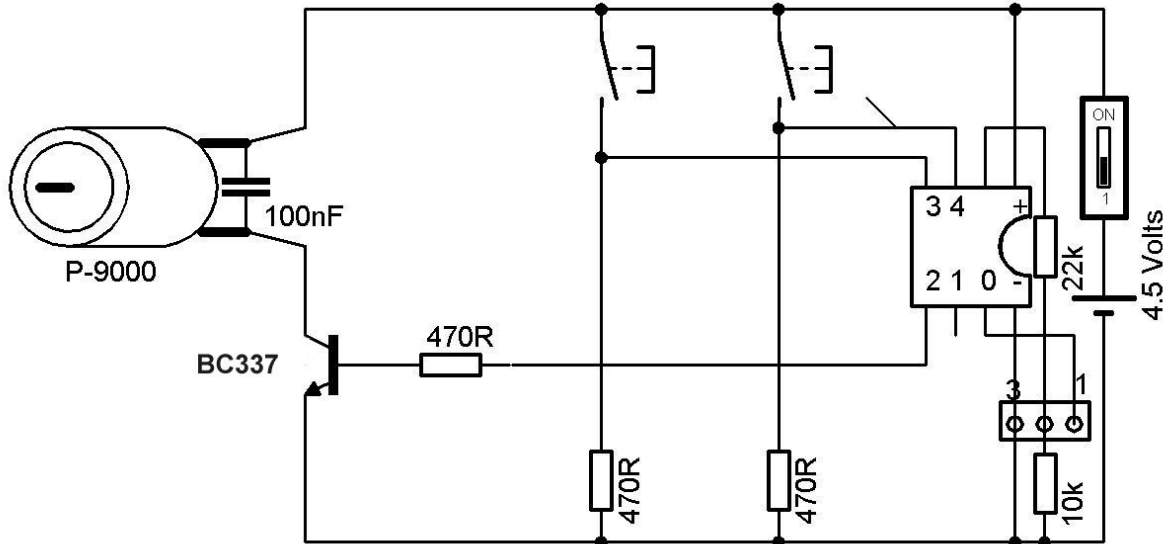
'Add 5 to b0

Decrease_Speed:

b0 = b0 - 5

goto loopa

'Subtract 5 from b0



- Refer to Help Section PICAXE Manual II under the pwmout command for details.
- Note most motors will not run on less than a b0 value of approx 150
- Increase/decrease subroutines will cause b0 to “roll over” above 255 or below 0
- The pwmout command signal from pin 2 is continuous as the program loops. Once the pwmout command has been updated the power level remains set regardless of what the program loop is doing or up to until pwmout is updated
- Don't forget the 100nF ceramic capacitor soldered directly to the brush contacts !
- A choice of 64 for the time base allows a 'power level' bn variable range of exactly 0 to 255 that gives a full range of 0 (fully OFF) to 100% (fully ON) power levels
- The programmer wizard can help choose alternative PWMOut time bases and ranges