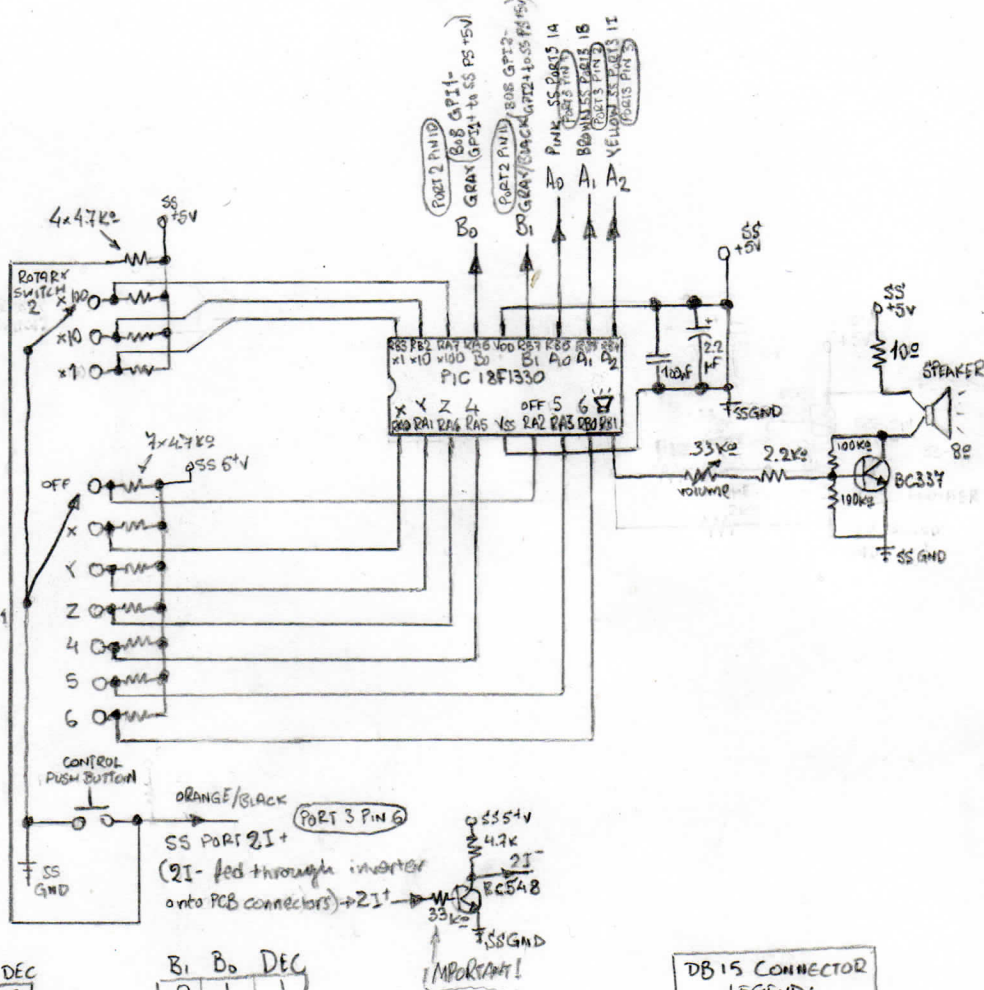
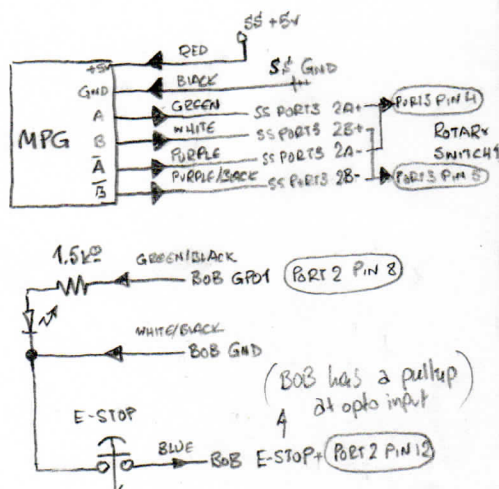
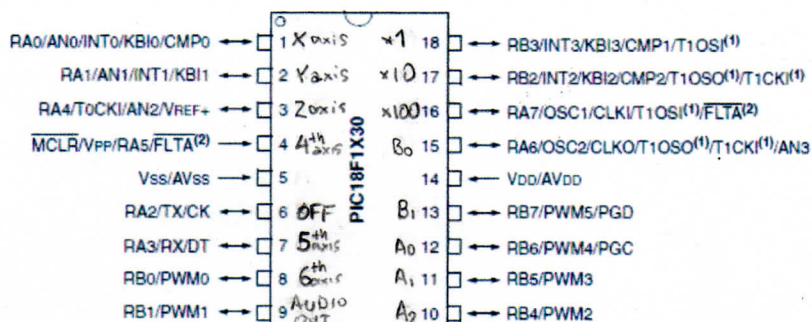


PIC18F1330 @ 32 MHz (INTERNAL OSCILLATOR)  
WITH 4x PLL

PIN	STATUS	ASSIGNMENT
RA0	INPUT	X axis
RA1	INPUT	Y axis
RA2	INPUT	0FF
RA3	INPUT	5 <sup>th</sup> axis or B axis
RA4	INPUT	Z axis
RA5	INPUT	4 <sup>th</sup> axis or A axis
RA6	OUTPUT	B <sub>0</sub>
RA7	INPUT	x100

PIN	STATUS	ASSIGNMENT
RB0	INPUT	G <sup>th</sup> axis or C axis
RB1	OUTPUT	PHM AUDIO OUT
RB2	INPUT	x10
RB3	INPUT	x1
RB4	OUTPUT	A <sub>2</sub>
RB5	OUTPUT	A <sub>1</sub>
RB6	OUTPUT	A <sub>0</sub>
RB7	OUTPUT	B <sub>1</sub>



- BLUE/BLACK
- ORANGE
- PINK/BLACK
- BROWN/BLACK
- YELLOW/BLACK

ROTARY SWITCH 2

	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	DEC
$\times 1$	1	1	0	6
$\times 10$	1	0	1	5
$\times 100$	0	1	1	3
BETWEEN POSITIONS	1	1	1	7

B <sub>1</sub>	B <sub>0</sub>	DEC
0	1	1
1	0	2
1	1	3
0	0	0

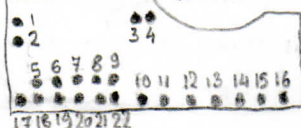
	$Y_6$	$Y_5$	$Y_4$	$Y_3$	$Y_2$	$Y_1$	$Y_0$	DIC
OFF							0	126
X	1						0	125
Y		1				0	1	123
Z			1		0	1		119
4 <sup>th</sup>				0	1			111
5 <sup>th</sup>		0	1					95
6 <sup>th</sup>	0	1			1			63
Random Position	1	1	1		1	1		127

A <sub>2</sub>	A <sub>1</sub>	A <sub>0</sub>	DEC
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	0	0	4
1	0	1	5
1	1	0	6
1	1	1	7

DB15 CONNECTOR  
LEGEND:

1. RED +5V (SS PS)
2. BLACK GND (SS PS)
3. GREEN A (SS PORT3 2A)
4. WHITE B (SS PORT3 2B)
5. PURPLE A (SS PORT3 2A-)
6. PURPLE-BLACK B (SS PORT3 2B-)
7. GREEN-BLACK LED+ (BOB GP01)
8. WHITE-BLACK LED- (BOB GND)
9. YELLOW A2 (SS PORT3 1I)
10. BROWN A1 (SS PORT3 1B)
11. PINK A0 (SS PORT3 1A)
12. GRAY B0 (BOB GP1 1I, GP1 1I → SS +5V)
13. GRAY-BLACK B1 (BOB GP2 1I, GP2 1I → SS +5V)
14. DEAN GE BLACK GND (SS PORT 2I + 2I- 2I)
15. BLUE C-STOP+ (BOB E-STOP+)

## CIRCUIT BOARD CONNECTIONS



### CIRCUIT BOARD CONNECTIONS LEGEND

