

## Pushbuttons 1 2 3

The pushbuttons require the PICs internal pullups to be enabled.

### 38KHz IR demodulator

IR1 shares an input pin with pushbutton #1 and can be enabled by turning on DIP switch #6 (IR)

### CON3 Auxiliary / EEPROM / Experimenter

Along the top edge of your Junebug is a 16 pin auxiliary connector marked CON3, it's a combination of three connectors and has a variety of functions for the more advanced Junebug experimenter.

	PIN	Label	Primary 18F2550 Function			PICKit2 2.50			EEPROM	label (pin)				
ICD	1	RE3	MCLR / External VPP			UART TOOL	I/O TOOL	LOGIC ANALYZER	24LCxxx I2C GND (1,2,3) 2K VDD & SCK(5)	25LCxxx SPI VDD (3,7)	93LCxxx Microwire VDD (7)			
	2	U5V	USB 5V											
	3	GND	GND											
	4	RB7	External PGD											
	5	RB6	External PCC											
AUX	6	RB1	SDA	24LC512*	SDA									
	7	RB0	SCL		SCL									
	8	RC7	RX											
	9	RC6	TX		WP									
	10	RC2	CCP1											
PICKit2 ®	11	VPP	HV 0-15V			Out1						/CS (1)	CS (1)	
	12	+5V	Switched 100ma USB power									VDD (8)	VDD (8)	VDD (8)
	13	GND	GND									VSS (4)	VSS (4)	VSS (5)
	14	PGD**	Program Data			TX	I/02	Ch1				SO (2)	DO (4)	
	15	PGC**	Program Clock			RX	I/03	Ch2				SCL (6)	SCK (6)	CLK (2)
	16	AUX					I/04	Ch3	SCK (5)	SI (5)	DI (3)			

\* A pair of 24LC512 EEPROMs

**\*\* 4.7K pulldown to GND**

## Using 3.3V PICs

Shown on the right is a PIC24FJ16GA002

