

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 | 18F2550 Function | EEPROM <i>label (pin)</i> | | |
|----------------------|-----|-------|------------------------------|---|--------------------------|---------------------------------|
| ICD | 1 | RE3 | MCLR / External VPP | 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 | | | | |
| | 7 | RB0 | | | | |
| | 8 | RC7 | | | | |
| | 9 | RC6 | | | | |
| | 10 | RC2 | | | | |
| PICKIT2 [®] | 11 | VPP | HV 0-15V programmable output | | /CS (1) | CS (1) |
| | 12 | +5V | Switched 100ma power | VDD (8) | VDD (8) | VDD (8) |
| | 13 | GND | GND | VSS (4) | VSS (4) | VSS (5) |
| | 14 | PGD | with 4.7K pulldown | | S0 (2) | D0 (4) |
| | 15 | PGC | with 4.7K pulldown | SCL (6) | SCK (6) | CLK (2) |
| | 16 | AUX | | SCK (5) | SI (5) | DI (3) |