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| RPi Pin (BCM) | Purpose | Color | Device |
| COMM | Signal Ground | Green | RS232 |
| 14 | Tx | Yellow | RS232 |
| 15 | Rx | Orange | RS232 |
| COMM | Vss | Orange White | LCD |
| +5v | Vdd | Orange | LCD |
| 13 | V0 (Contrast) | Green | LCD |
| 17 | RS | Brown White | LCD |
| 18 | RW | Brown | LCD |
| 27 | E | Green White | LCD |
| 22 | Data 0 | Brown White Black | LCD |
| 23 | Data 1 | Green White Black | LCD |
| 24 | Data 2 | Blue White Black | LCD |
| 25 | Data 3 | Orange White Black | LCD |
| 5 | Data 4 | Green Black | LCD |
| 6 | Data 5 | Orange Black | LCD |
| 12 | Data 6 | Brown White (Tape) | LCD |
| 16 | Data 7 | Blue White (Tape) | LCD |
| +5 | A | Blue | LCD |
| COMM | K | Blue White | LCD |
| +3.3v | Vdd | Red | AM2302 |
| 4 | Data | Yellow | AM2302 |
| COMM | Ground | Black | AM2302 |
| 0 | IN + | White (to white extended) | Pwr Switch Tail II - 1 |
| 1 | IN + | Gray (to white extended) | Pwr Switch Tail II - 2 |
| COMM | IN - | Purple (to blue extended) | Pwr Switch Tail II – 1 & 2 |
| 26 | In (Pull Up) | Red | Red Button (Norm. Closed) |
| COMM |  | Green | Red Button (Norm. Closed) |
| 19 | In (Pull Up) | Red | Black Button (Norm. Closed) |
| COMM |  | Green | Black Button (Norm. Closed) |



