



|      |                       |
|------|-----------------------|
| R1   | 360k                  |
| R2   | 15k                   |
| R3   | 3k                    |
| R4   | 1k                    |
| R5   | 1k                    |
| R6   | 27k                   |
| R7   | 10k                   |
| R8   | 150k <sup>1</sup>     |
| R9   | 1M                    |
| R10  | 2k2                   |
| R11  | 5k6                   |
| R12  | 47k                   |
| R13  | 51R                   |
| R14  | 31k6 <sup>2</sup>     |
| R15  | 31k6 <sup>2</sup>     |
| RX1  | (jumper) <sup>3</sup> |
| RPD  | 1M to 2M2             |
| LEDR | 4k7                   |

|     |                              |
|-----|------------------------------|
| C1  | 47n                          |
| C2  | 100pF MLCC                   |
| C3  | 220n                         |
| C4  | 2u2 electrofilm <sup>4</sup> |
| C5  | 4n7 <sup>3</sup>             |
| C6  | 1uF film                     |
| C7  | 22n                          |
| C8  | 4n7                          |
| C9  | 22n <sup>5</sup>             |
| C10 | 4n7 <sup>5</sup>             |
| C11 | 1uF film                     |
| C12 | 4n7                          |
| C13 | 100uF electro                |
| C14 | 22uF electro                 |

|        |                             |
|--------|-----------------------------|
| Q1     | 2N5952 <sup>6</sup>         |
| IC1    | CA3130                      |
| D1     | 1N4002                      |
| D2, D3 | LED (diffused) <sup>7</sup> |
| D4, D5 | 1N4007 <sup>8</sup>         |
| LED    | 5MM                         |

#### Potentiometers

|        |                   |
|--------|-------------------|
| Drive  | 500kA             |
| Nature | 50kA              |
| Volume | 50kA <sup>9</sup> |

<sup>1</sup> **Alternate value:** Some versions of the schematic use 47k for R8. General consensus is that 150k is correct.

<sup>2</sup> **Substitution:** This is just a simple voltage divider, so 27k or 33k would work exactly the same.

<sup>3</sup> **The Bearfoot version** changes the Nature control so it's more useful. Use 220n for C5 and 4k7 for RX1.

<sup>4</sup> **Capacitor type:** I made space for the huge [ECQ-V film cap](#) from Panasonic to fold flat against the board.

<sup>5</sup> **Experimentation:** To open up the tone a bit more, reduce C9 to 15n or 10n and/or increase C10 to 22n. It's worth socketing these along with C5 and RX1 to see which combination you like best.

<sup>6</sup> **Substitution:** A 2N5457 should sound identical here, but note that the pinout is reversed from the silkscreen.