

# Hot Cake Overdrive

## Components

|           |                                |            |         |                 |                       |
|-----------|--------------------------------|------------|---------|-----------------|-----------------------|
| <b>C1</b> | 10nF (Poly Film)               | <b>R1</b>  | 1M      | <b>GAIN</b>     | 50K Reverse Log       |
| <b>C2</b> | 10uF (Electrolytic 25V min)    | <b>R2</b>  | 10K     | <b>PRESENCE</b> | 50K Linear            |
| <b>C3</b> | 100uF (Electrolytic 25V min)   | <b>R3</b>  | 100K    | <b>VOLUME</b>   | 50K Log               |
| <b>C4</b> | 10uF (Electrolytic 25V min)    | <b>R4</b>  | 82K     |                 |                       |
| <b>C5</b> | 82nF (Poly Film)               | <b>R5</b>  | 220 OHM | <b>IC1</b>      | LM741 <b>or</b> TL071 |
| <b>C6</b> | 470pF (Ceramic)                | <b>R6</b>  | 10K     |                 |                       |
| <b>C7</b> | 10nF (Poly Film)               | <b>R7</b>  | 100K    |                 |                       |
| <b>C8</b> | 47nF (Poly Film)               | <b>R8</b>  | 220 OHM |                 |                       |
|           |                                | <b>R9</b>  | 1K      |                 |                       |
| <b>D1</b> | 8.2V Zener (1N4738 or similar) | <b>R10</b> | 10K     |                 |                       |
|           |                                | <b>R11</b> | 1M      |                 |                       |

## Board Connections

The PCB connections are labelled as the following:

I - Input, O - Output, V - 9V DC in, G - Ground

Potentiometers are connected from pin 1 to the square pad on the PCB. This board was designed so you can use right-angle board mount potentiometers on it if desired, otherwise you will need to solder wires from the pads to the correct pin/lug. Jack sleeves and DC centre pin should be connected to ground. V, LED + with a 2K2 resistor in series should be connected to the positive pin of the DC connector.

