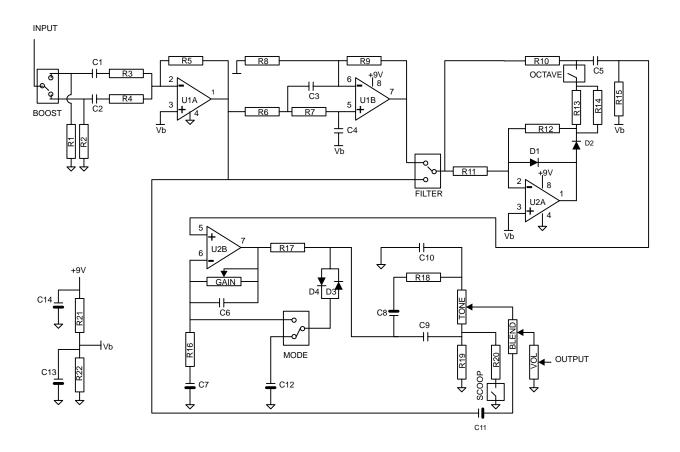
## **Omni Drive**

as designed by John Hollis



R1 = 10M	C1 = 0.01 uF (10 nF)
R2 = 10M	C2 = 0.001 uF (1nF)
R3 = 330K	C3 = 0.001uF (1nF)
R4 = 100K	C4 = 0.001uF (1nF)
R5 = 1M	C5 = 0.01uF (10nF)
R6 = 220K	C6 = 47pF
R7 = 220K	C7 = 10uF
R8 = 100K	C8 = 1uF
R9 = 100K	C9 = 0.047uF (47nF)
R10 = 10K	C10 = 0.1uF (100nF)
R11 = 10K	C11 = 1uF ` ´
R12 = 10K	C12 = 10uF
R13 = 10K	C13 = 10uF
R14 = 10K	C14 = 10uF
R15 = 100K	U1, U2 = TL072
R16 = 1K	D1,2,3,4 = 1N914
R17 = 1K	GAIN = 470K pot
R18 = 3.9K (3K9)	TONE = 10K Lin pot
R19 = 10K	BLEND = 47K Log pot
R20 = 1K	VOLUME = 100K Log
R20 = 1R R21 = 10K	VOLONIE - TOOK LOG
R21 = 10K R22 = 10K	
N22 = 10N	

## Miscellaneous:

SPDT switches for BOOST, FILTER, OCTAVE, MODE, SCOOP.

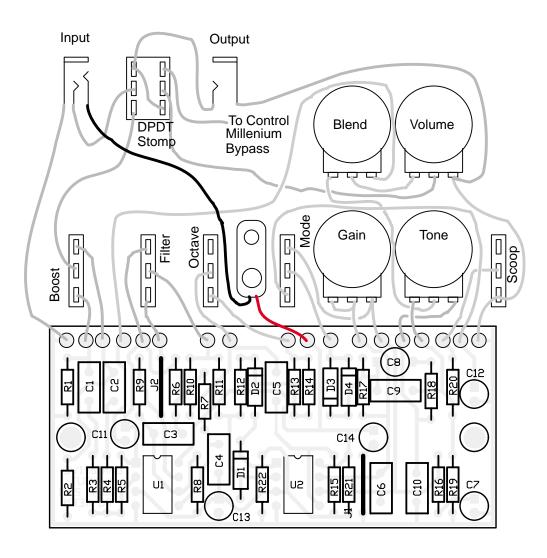
Use DPDT stomp switches if you want to add LED indicators for the various modes, tying an LED and 4.7K (4K7) resistor from +9V to ground through the extra switch section when the switch is in the indicator position. Bicolor LEDs work for adding two-position switches for BOOST and MODE.

DPDT stomp switch for bypass. Use Millenium Bypass for LED indicator and true bypass with only a DPDT.

You'll also need: Box (Hammond 1590BB works), battery clip, knobs for the pots, stereo 1/4" input jack, mono 1/4" output jack, hookup wire, and so on - the standard "wrapper" that goes on every effect.

\*Layout updated 10/21/01; missing trace connecting R2 pad to ground.

## Omni Drive PCB Layout and Wiring



Board is sized to fit inside a Hammond 1590BB, but with five toggle switches and four controls, it's going to be a very tight fit. I recommend the Hammond 1590DD, which has a much larger face, suitable for more controls.

