

38 Black Jack Foot Stomper

□ The object is to see who can get closest to 21 LED flashes without going over. Any number of people can play. Press S1 until LED1 starts flashing (1 second on, 1 second off). Then count the number of pulses *after* S1 is released. You may get 5 the first time. That is like being dealt a 5 in Black Jack. Do it again and add the second count to the first, etc., until you are as close as

you can get to 21 without going over. If you go over, you are out of the game. A fun game and easy to build. The 9 volt battery will last for months. Ground all unusual terminals on IC1. If you have a horse who can count to 11 by stomping its hoof, you'll keep that hours for many hours.

PARTS LIST FOR BLACK JACK FOOT STOMPER

C1—4.7- μ F tantalum capacitor, 15 VDC

C2—0.1- μ F ceramic disc capacitor, 15 VDC

D1—1N4001 diode

IC1—4000 NOR gate

LED1—Light-emitting diode

R1—5,000,000-ohm, $\frac{1}{2}$ -watt resistor

R2—30,000-ohm, $\frac{1}{2}$ -watt resistor

R3, R4—10,000,000-ohm, $\frac{1}{2}$ -watt resistor

R5—1,000-ohm, $\frac{1}{2}$ -watt resistor

S1—SPST pushbutton (doorbell switch)

