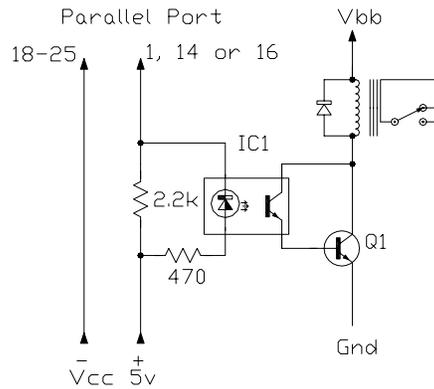


Relay Circuits for Homebrew CNC Machines

By: Cletus Berkeley

Here are two simple ways to switch loads such as Spindles, Solenoid Valves, Vacuums, Etc.

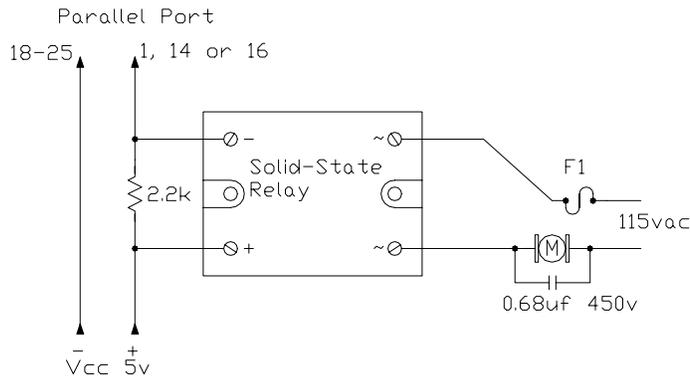
DC RELAY DRIVER



IC1 4N25
Q1 TIP132
DIODE 1N4148

A DC solenoid valve of appropriate voltage may be substituted for the relay above.

AC SOLID-STATE RELAY:



Solid-State Relay KD20C40AX Kyoto (or equiv.) (Good to 40Amps)
F1 Fuse appropriately to load used.

WARNING

These circuits may have LINE VOLTAGE PRESENT. If you are not experienced and/or comfortable working with mains potential, seek assistance from someone qualified to do so. The author assumes no responsibility for injury or death resulting from the above projects.

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