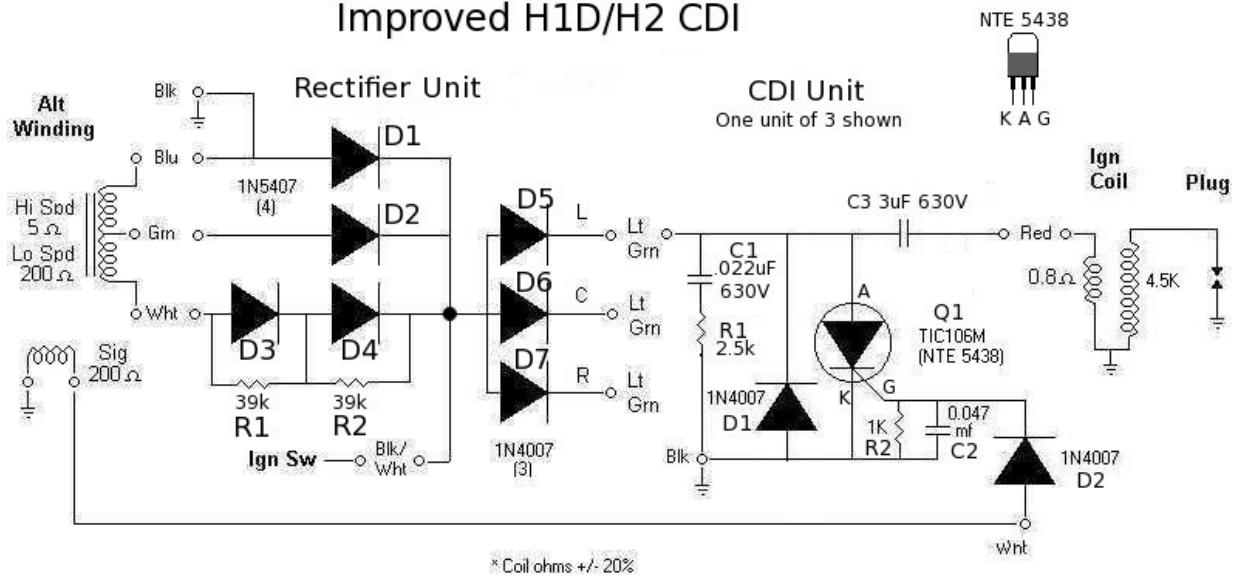


## Improved H1D/H2 CDI



### Parts List, Rectifier Unit

Designator	Qty.	Mouser Part No.	Description
D1-D4	4	512-1N5408	3A 1000V rectifier diode (see note 2)
D5-D7	3	625-1N4007-E3	1A 1000V rectifier diode (see note 3)
R1, R2	2	660-MOS2CT52R393J	39K 2 Watt resistor

### Parts List, for each CDI Unit (See note 1)

D1, D2	2	625-1N4007-E3	1A 1000V rectifier diode
R1	1	660-MOS2CT52R242J	2.4k Ohm 2 Watt resistor (see note 4)
R2	1	660-MOS1CT52R102J	1K 1 Watt resistor
C1	1	1429-6223	.022 uF 630 Volt capacitor
C2	1	1429-6473	.047 uF 630V capacitor
C3	1	871-B32676E4305K	3 uF 630V capacitor
Q1	1	526-NTE5438	8A 600V thyristor (SCR)

Note 1: This design incorporates changes from the original Kawasaki units to increase reliability without compromising performance, and has proven to work well in use. Specific parts were chosen based on price and availability.

Note 2: Schematic shows 1N5407, a 3A 800V diode, which is adequate. Current part pricing suggests using 1N5408 as a substitute, since this part is similar, but with a 1000V rating.

Note 3: Schematic shows 1N4007, a 1A 1000V diode, which is adequate. Depending on mechanical considerations when assembling the circuit, the builder may prefer to use the same diodes chosen for D1-D4, which are physically larger.

Note 4: The schematic shows a 2.5k resistor, but this value is not critical. Due to availability, a 2.4k resistor was substituted.