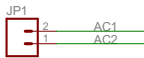


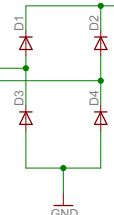
Connect transformer here
6.3V @ 700 mA
Hammond 161GA12 or similar
<http://www.hammondmfg.com/pdf/5c0011-12.pdf>



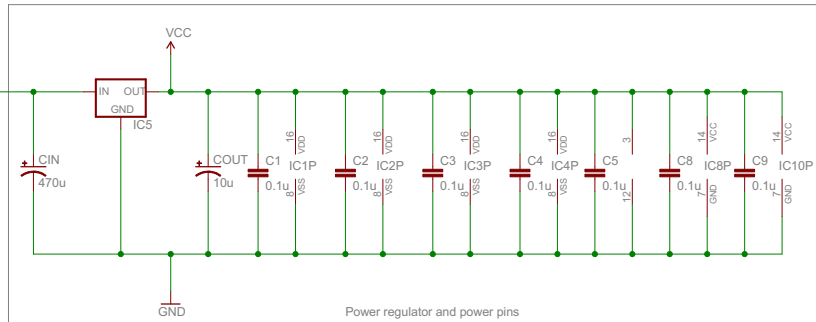
Power Input

$$V_p = V_{rms} / .707 \Rightarrow 6.3V_{rms} = 8.9 V_p$$

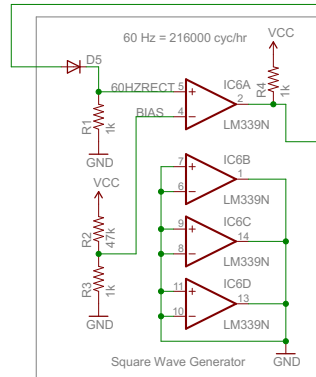
$$8.9 V_p - 2 \cdot (.85 V_f) = 7.2 V$$



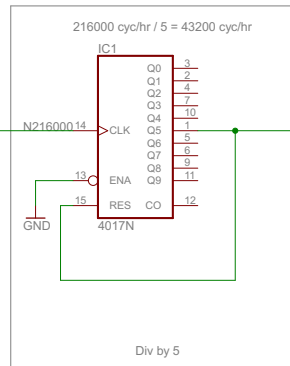
Full-wave rectifier



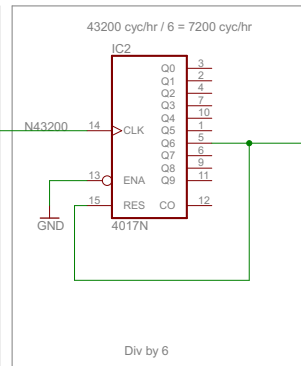
Power regulator and power pins



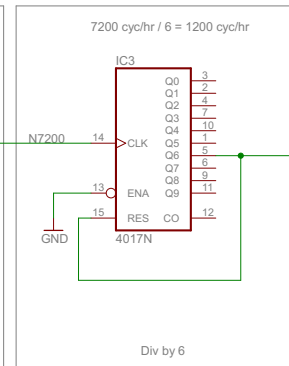
Square Wave Generator



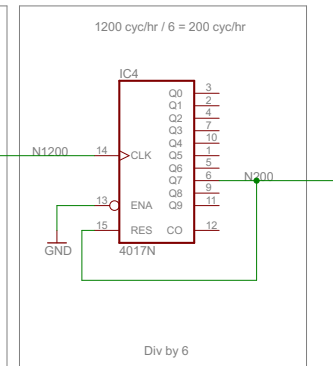
Div by 5



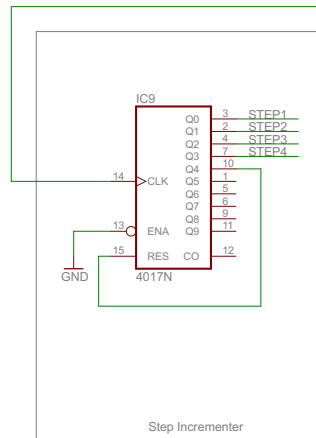
Div by 6



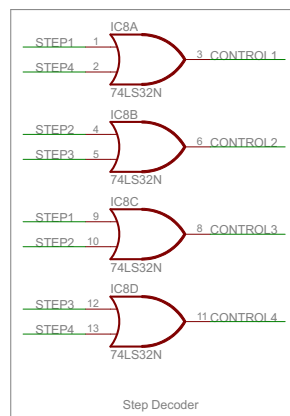
Div by 6



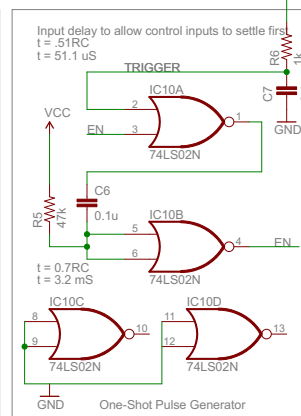
Div by 6



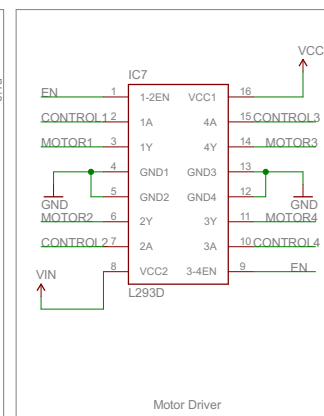
Step Incrementer



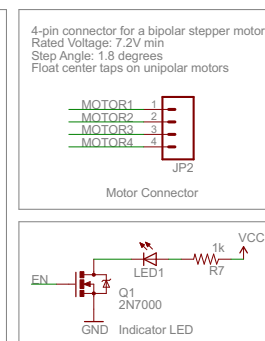
Step Decoder



One-Shot Pulse Generator



Motor Driver



Motor Connector

Indicator LED

Title: sprocket_clock

Version:

10/11/2014 7:16:44 PM

Drawn By:

1/1