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DIY Aeroponic Timer - 555 circuit



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Hi all.

This has been my project for the last few days, and I've finally cracked it, so I'm happy to share it with you. Aeroponic timers are expensive, but relatively simple and cheap devices to the amateur electronics geek. This adjustable timer turns a pump ON for 7-27 seconds, and OFF for 20 seconds 4 minutes. The times could be easily changed longer or shorter by using different value potentiometers. The components cost me under £15 but I did buy a 12v transformer as well. You don't have to use 12v DC for the circuitry, you could use a 9v battery with different components. However I opted for mains power because I didn't want batteries running out on me. I haven't touched any electronics for over 10 years when I did my apprenticeship in manufacturing engineering, but I managed - so it's not rocket science.

DISCLAIMER The following timer is a device that uses mains voltage. Although safe to use, in replicating this device, any mistakes in wiring could lead to electric shock with mains power. This guide is for information only. The following timer could be made to work with a safer 12v DC water pump, but would require different components from the ones specified. (just don't do it if you don't know what you're doing, stoned or drunk. Check all circuitry using multimeters or LEDs before attaching mains power!)

What we're making is a Timer circuit that controls a relay