Section Control

This document explains the build and requirements for section control by AgOpenGPS

You require the following parts:

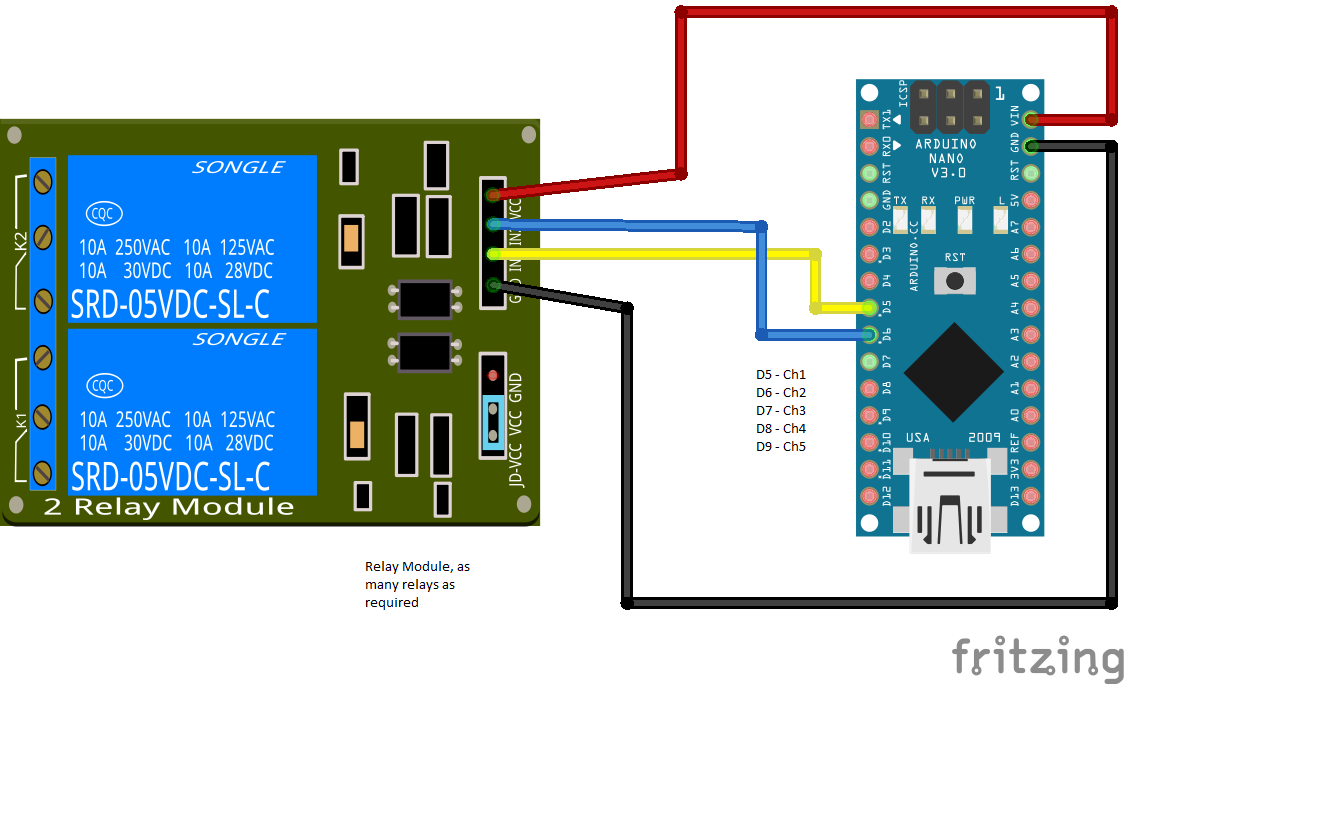
Jumpers [https://www.ebay.ca/itm/120Pcs-11cm-G...](https://www.youtube.com/redirect?q=https%3A%2F%2Fwww.ebay.ca%2Fitm%2F120Pcs-11cm-Good-Male-to-Female-Dupont-Wire-Jumper-Cable-for-Arduino-Breadboard%2F192126476366%3Fhash%3Ditem2cbba1604e%3Ag%3A0ekAAOSwol5YwP5f&event=video_description&v=QM06A332rwU&redir_token=M4tZj8-EbnLGKTYNOoR-ACpCrqZ8MTUxODU2NDM3N0AxNTE4NDc3OTc3)

Relay Boards [https://www.ebay.ca/itm/5V-1-2-4-6-8-...](https://www.youtube.com/redirect?q=https%3A%2F%2Fwww.ebay.ca%2Fitm%2F5V-1-2-4-6-8-Channel-Relay-Board-Module-Optocoupler-LED-for-Arduino-PiC-ARM-AVR%2F401237960337%3Fhash%3Ditem5d6ba56691%3Am%3AmzkfWblEtqpHZfTceI9Bh9A&event=video_description&v=QM06A332rwU&redir_token=M4tZj8-EbnLGKTYNOoR-ACpCrqZ8MTUxODU2NDM3N0AxNTE4NDc3OTc3)

USB v3 Nano - presoldered headers [https://www.ebay.ca/itm/Mini-USB-Nano...](https://www.youtube.com/redirect?q=https%3A%2F%2Fwww.ebay.ca%2Fitm%2FMini-USB-Nano-V3-0-ATmega328-16M-5V-Micro-controller-CH340G-board-For-Arduino%2F201539955347%3Fhash%3Ditem2eecb7aa93%3Ag%3AG2wAAOSwPzhaJ76G&event=video_description&v=QM06A332rwU&redir_token=M4tZj8-EbnLGKTYNOoR-ACpCrqZ8MTUxODU2NDM3N0AxNTE4NDc3OTc3)

Keyes Screw terminal board for Nano [https://www.ebay.ca/itm/Nano-Terminal...](https://www.youtube.com/redirect?q=https%3A%2F%2Fwww.ebay.ca%2Fitm%2FNano-Terminal-Expansion-Board-Terminal-Adapter-Screw-IO-Shield-For-Arduino-NANO%2F401488960512%3Fhash%3Ditem5d7a9b5c00%3Ag%3AmwcAAOSwkNpaeO-e&event=video_description&v=QM06A332rwU&redir_token=M4tZj8-EbnLGKTYNOoR-ACpCrqZ8MTUxODU2NDM3N0AxNTE4NDc3OTc3)

Refer to this pictorial diagram



Also refer to this youtube video: <https://www.youtube.com/watch?v=QM06A332rwU>

Also to this forum thread

http://www.thecombineforum.com/forums/31-technology/320081-aog-section-control-tutorial.html

Connect to the relay pins.

Vcc to +5v

Gnd to Gnd

Ch1 of the relay to pin D5 of the Nano

Ch2 of the relay to pin D6 of the Nano

Ch3 of the relay to pin D7 of the Nano

Ch4 of the relay to pin D8 of the Nano

Ch5 of the relay to pin D9 of the Nano

Only connect as many channels as required.

Plug in the Nano to the usb port and the computer.

If you have never plugged in a nano to your computer before and it is not a genuine nano but the cheap ones like spec’d above, it probably has a CH340 chip for usb. Follow these instructions:

<http://www.instructables.com/id/Arduino-Nano-USB-Not-Recognizing-Fix/>