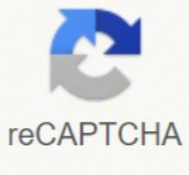




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Stepper motor driver circuit pdf files

The image above shows the professionally manufactured PCB ready for soldering. Configuration Current Adjustment The board allows you to control the amount of current flowing through the coils by adjusting a trimpot located on the board next to the 'Interface' connector. It will do 2000 steps in each direction at each speed. This part is very easy. Simply take your AT power supply and plug a power connector into the board, and turn it on. The pin to its left is #2. Get It! Raw Components Buy the components with ease Files You can download the release file from SourceForge that has a bunch of helpful files for this board. 5 Enable This pin allows you to turn the motor on and off. Its up to you as a user to decide. If you have another source of high quality premade cables (that we have not already rejected) please bring it to our attention in the forums. If this is happening, then congratulations: your stepper driver board is a success! Hook up a stepper motor You'll need a stepper motor to drive at this point. Please do not complain about being forced to use these cables, as there is a simple on-board alternative (see below). A high signal means on, low signal means off 6 Min This is the signal from the 'min' sensor. Next, open the Arduino software, copy the code below into your sketch and upload it. I found that it is much easier to solder SMT boards in this fashion than to solder pin after pin manually with through-hole components. If you look into the holes of the IDC plug, with the red stripe away from you, the top-right pin is #1. Any improvement? If the motor does move, but is very jerky, then you have miswired the stepper to the board. This page describes something which is no longer the most recent version. The green LED next to the connector should light up. After a few seconds, your stepper motor should spring to life. It is based around the Allegro A3982 Stepper Motor Driver with Translator. Connect Power to Board Always turn your power supply off before plugging it in. The A3982 offers a number of improvements: Only one chip to solder, as opposed to the two chip L297/L298 combo Superior DMOS technology (no heatsink required!) Built-in diodes and synchronous rectification (no large diode array!) Much cheaper and smaller than the L297/L298 (about \$10 cheaper, total!) The downside is that the board is mostly SMT, although we made a conscious design decision to stick with some of the largest and easiest to solder SMT components on the market. It won't fry things most of the time... Its also cheap, only \$5.00 USD. Its very easy, and consists of a few steps. You can solder wires directly to the board, solder in right-angle headers, normal headers, or any other number of technologies. TI Precision Labs You can start following this product to receive updates when new Resources, Tools and SW become available. Schematic Sorry, check the eagle file. This is because the LED's are switching from on to off very rapidly. Generally, you will want to adjust this to the lowest setting you need that will still turn the motor. There, done. #define stepPin 4 #define dirPin 5 void setup() { Serial.begin(9600); Serial.println("Starting stepper exerciser."); pinMode(stepPin, OUTPUT); pinMode(dirPin, OUTPUT); digitalWrite(dirPin, HIGH); digitalWrite(stepPin, LOW); } void loop() { int i, j; for (i=1000; i>=200; i-=100) { Serial.print("Speed: "); Serial.println(i); for (j=0; j

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