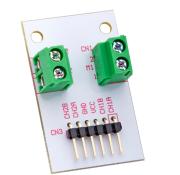
Dual Channel Motor Driver



We hope you enjoy your Dual Channel Motor Driver from RadioShack. Please read this user's guide before using your new board.

Package Contents

- Dual Channel Motor Driver
- User's Guide

Features

- Control direction and speed of two separate motors with pulse width modulation (PWM).
- Drive two DC motors or a 4-wire, 2-phase stepper motor

Required Accessories (Not Included)

- 2 Pin Cable (3)
- 2 Pin Dual Male Connector (3)

Connect

1. Connect 2-pin dual male connectors to each • 5V to VCC • GND to GND end of the 2-pin cables. 3. Connect the Arduino board's DIGITAL (PWM~)

• ~10 to CH2A

• ~6 to CH1B • ~11 to CH2B

2. Connect your Arduino board or an external

headers to the motor driver.

• ~5 to CH1A

power supply to the dual channel motor driver.

4. Connect motors to the motor driver.

Stepper Motor: Open the Arduino 4 Wire Stepper Motor match the pin definitions the setup of example, to match the pin definitions on Black (-B) page 4, change the line to 5. Verify and upload the program to your

Refer to your stepper motor's datasheet for details.

Arduino board

Two DC Motors

DC Motor PWM Signal Download the Support Files

- 1. For the Arduino program and libraries, go to M1 CH1A CH1B M2 CH2A CH2B http://shack.net/2730851. 2. At the end of the blog post, click RadioShack CW
- Dual Channel Motor Driver Support Files and save the folder to your computer. Connect your Arduino Uno R3 to your
- computer with a USB cable. 4. Open the corresponding .ino file.
- DC Motor: Open DC_motor_driver.ino in the Arduino programming environment.
- Stepper Motor PWM Signal programming environment and browse to Phase the **stepper_oneRevolution** example.

CCW

CCW

Note: On line 24 of stepper_oneRevolution, your motor driver and Arduino board. For myStepper(stepsPerRevolution, 5,6,10,11);

- Control Sequence
- Clockwise: (+A, +B), (-A,+B), (-A,-B), (+A,-B) **6.** Remove the USB cable from your Arduino Counterclockwise: (+A. -B), (-A.-B), (-A.+B), (+A.+B)

Specifications

...Dual L 9110S3V ~ 12V Current..... 600mA at 12V (per channel)(43mm × 27mm × 1.6mm) Specifications are subject to change and improvement without notice. Actual product may vary from the images found in this document.

Limited Warranty

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