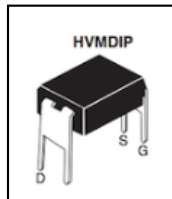


Kelley Sheehan



On my setup, the second and third DC motors are to pins 12 and 11. While the solenoid are to pins 22, 23, and 24 respectively

Software:
 Arduino IDE - Firmata library
 Max MSP - maxuino

STEPPER

H-Bridge Pinouts	Microcontroller Pin
B-1A	38
B-1B	39
GND	GND (PUT THIS ASIDE FOR NOW)
VCC	VCC (PUT THIS ASIDE FOR NOW)
A-1A	40
A-1B	41

H-Bridge	Stepper(ADAFRUIT(Diagram) CLASS)
Motor A (left)	Red Blue Wire
Motor A (right)	Yellow Red
Motor B (left)	Green Green
Motor B (right)	Gray Black

*for second stepper, same connections but microcontroller pins are 53-50 instead

SERVO

Micro-Servo	Microcontroller Pin (unless marked with "rail" then it should go to protoboard)
GND	GND (rail)
VCC	3.3v
Signal	10

DC Motor/Solenoid

DC Motor	Microcontroller Pin (unless marked with "rail" then it should go to protoboard)
GND	GND (rail)
VCC	Drain (to FET - see diagram)

*similar setup for solenoids. On my setup, the second and third DC motors are to pins 12 and 11.
While the solenoid are to pins 22, 23, and 24 respectively

Protoboard

FET	-Diode-	Power
Drain		13
Gate		GND
Signal		

*similar setup for solenoids. On my setup, the second and third DC motors are to pins 12 and 11.
While the solenoid are to pins 22, 23, and 24 respectively

9v boards the respective rails (GND-GND POWER-POWER) with a toggle on/off between the rail and the 9v power.

Microcontroller powered via USB.