## Stepper Motor Drivers

R
A4988
EN MS1 MS2 MS3 ~RESET ~SLEEP STEP DIR
VMOT GND 2B 2A 1A 1B VDD GND
VMOT_R GND_R
D_51 D_50
V_R GND_1
Stepper_R

L
A4988
EN MS1 MS2 MS3 ~RESET ~SLEEP STEP DIR
VMOT GND 2B 2A 1A 1B VDD GND
VMOT_L GND_L
D_49 D_48
V_L GND_2
Stepper_L

F
A4988
EN MS1 MS2 MS3 ~RESET ~SLEEP STEP DIR
VMOT GND 2B 2A 1A 1B VDD GND
VMOT_F GND_F
D_53 D_52
V_F GND_3
Stepper_F

B
A4988
EN MS1 MS2 MS3 ~RESET ~SLEEP STEP DIR
VMOT GND 2B 2A 1A 1B VDD GND
VMOT_B GND_B
D_47 D_46
V_B GND_4
Stepper_B

U
A4988
EN MS1 MS2 MS3 ~RESET ~SLEEP STEP DIR
VMOT GND 2B 2A 1A 1B VDD GND
VMOT_U GND_U
D_42 D_43
V_U GND_5
Stepper_U

D
A4988
EN MS1 MS2 MS3 ~RESET ~SLEEP STEP DIR
VMOT GND 2B 2A 1A 1B VDD GND
VMOT_D GND_D
D_45 D_44
V_D GND_6
Stepper_D

## Driver Power Supply

+5V_ard GND_ard
V_R V_L V_F V_B V_U V_F
GND_1 GND_2 GND_3 GND_4 GND_5 GND_6

## Arduino Mega 2560 R3

ARDUINO MEGA 2560
Power
Analog In
PWM
Communication
DIGITAL
GND GND
5V 5V
IOREFF RESET 3V3 5V GND GND Vin
+5V_ard
GND_ard
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15
D_53 D_52 D_51 D_50
AREF GND D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 TX0 < D1 RX0 > D0
TX3 D14 RX3 15 TX2 16 RX2 17 TX1 18 RX1 19 SDA 20 SCL 21
D_49 D_48 D_47 D_46 D_45 D_44 D_43 D_42

## Stepper Motor power supply

12V10A
VMOT_R 16V 100uF GND_R
VMOT_L 16V 100uF GND_L
VMOT_F 16V 100uF GND_F
VMOT_B 16V 100uF GND_B
VMOT_U 16V 100uF GND_U
VMOT_D 16V 100uF GND_D
GND_motor