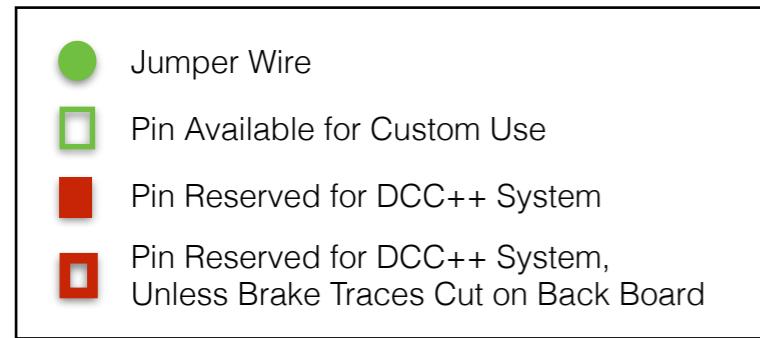


DCC++ Base Station Signal Name	Arduino Motor Shield
SIGNAL_ENABLE_PIN_MAIN	3
SIGNAL_ENABLE_PIN_PROG	11
CURRENT_MONITOR_PIN_MAIN	A0
CURRENT_MONITOR_PIN_PROG	A1
DCC_SIGNAL_PIN_MAIN	10
DCC_SIGNAL_PIN_PROG	5
DIRECTION_MOTOR_CHANNEL_PIN_A	12
DIRECTION_MOTOR_CHANNEL_PIN_B	13

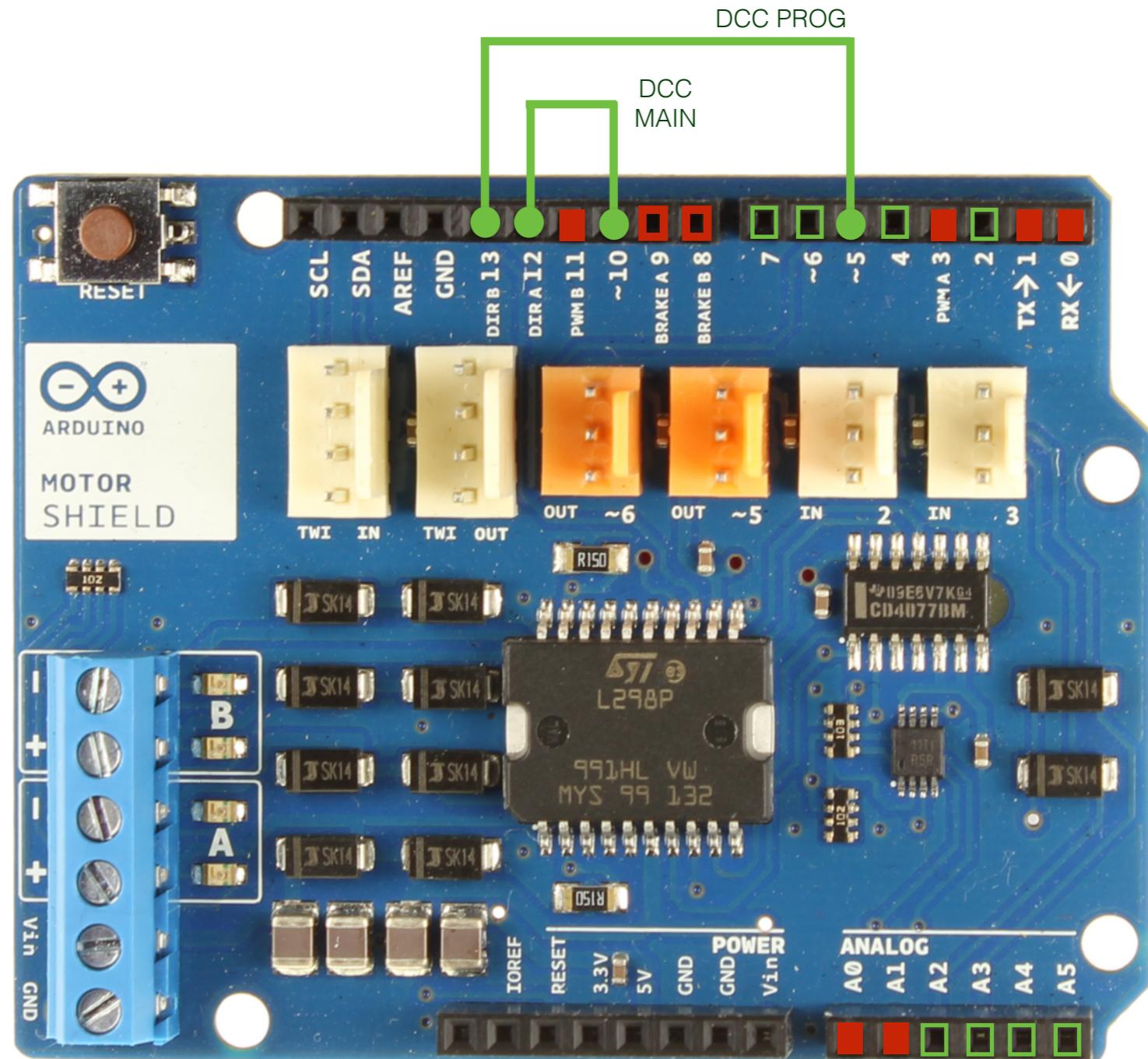
## Pin Mappings for Arduino UNO with Arduino Motor Shield



Programming Track     

Main Ops Track     

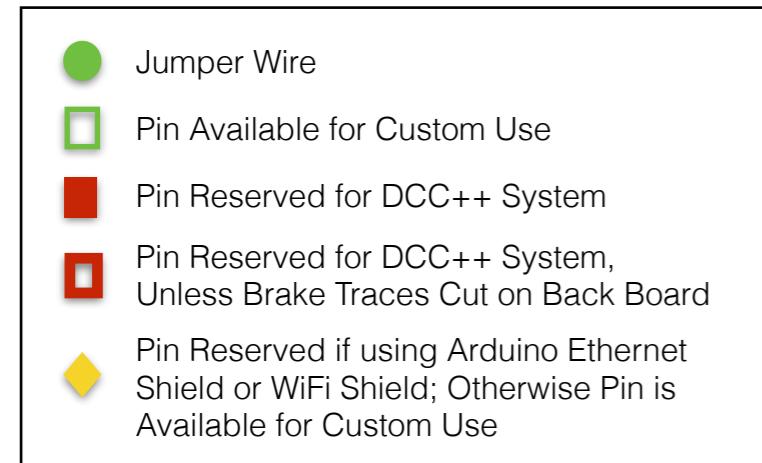
DC Power Supply\*     



\*cutting V-IN Connect trace on back of board is recommended

DCC++ Base Station Signal Name	Arduino Motor Shield
SIGNAL_ENABLE_PIN_MAIN	3
SIGNAL_ENABLE_PIN_PROG	11
CURRENT_MONITOR_PIN_MAIN	A0
CURRENT_MONITOR_PIN_PROG	A1
DCC_SIGNAL_PIN_MAIN	12
DCC_SIGNAL_PIN_PROG	2
DIRECTION_MOTOR_CHANNEL_PIN_A	12
DIRECTION_MOTOR_CHANNEL_PIN_B	13

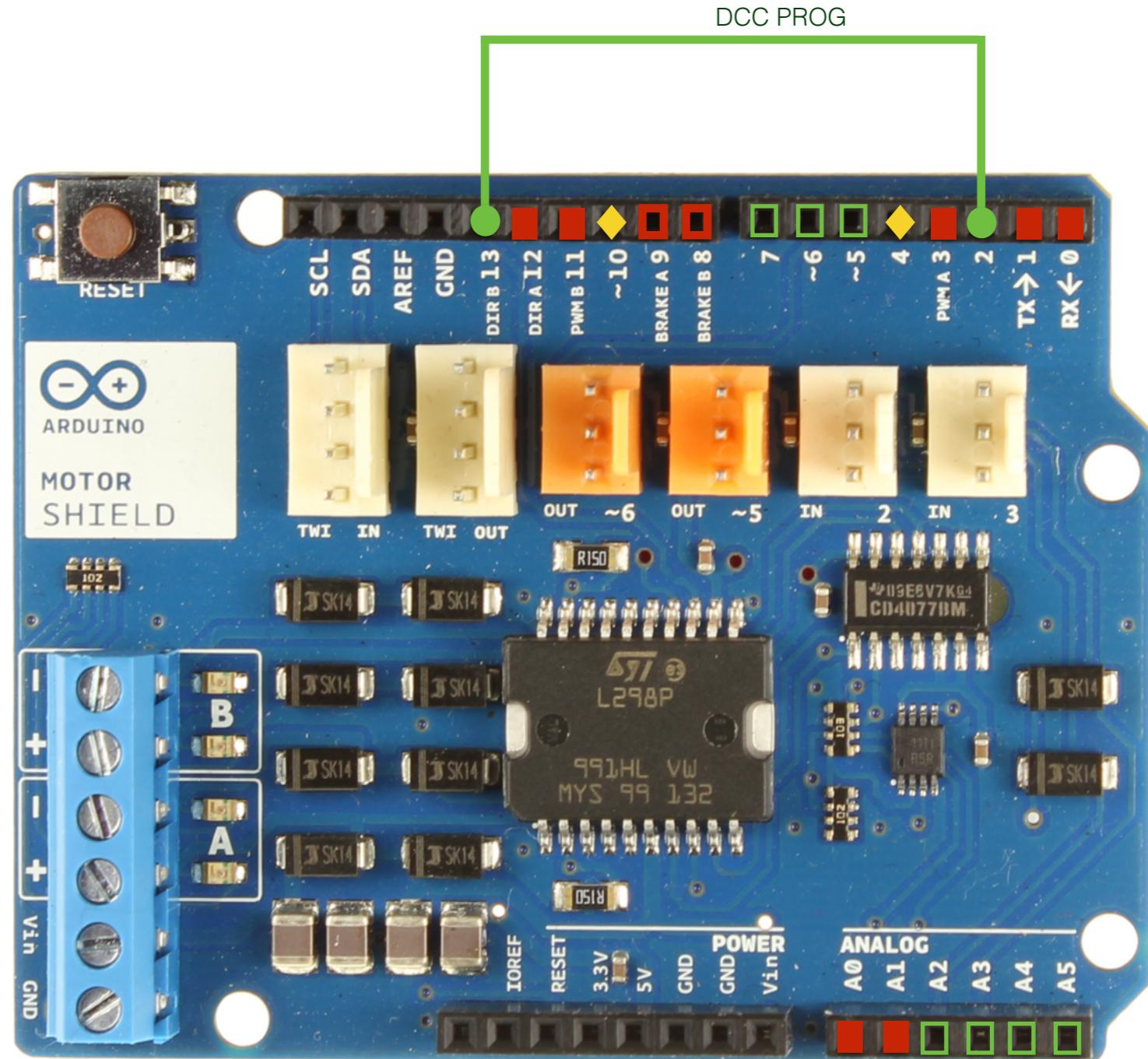
## Pin Mappings for Arduino MEGA with Arduino Motor Shield



Programming Track     

Main Ops Track     

DC Power Supply\*     



\*cutting V-IN Connect trace on back of board is recommended

## **Recommended Modifications to Arduino Motor Shield**

### **Brake Disable**

Normally, pins 8 and 9 control the braking feature of motors connected to the output pins of the Arduino Motor Shield. This functionality is not applicable for DCC++ and pins 8 and 9 must be left open or always set LOW.

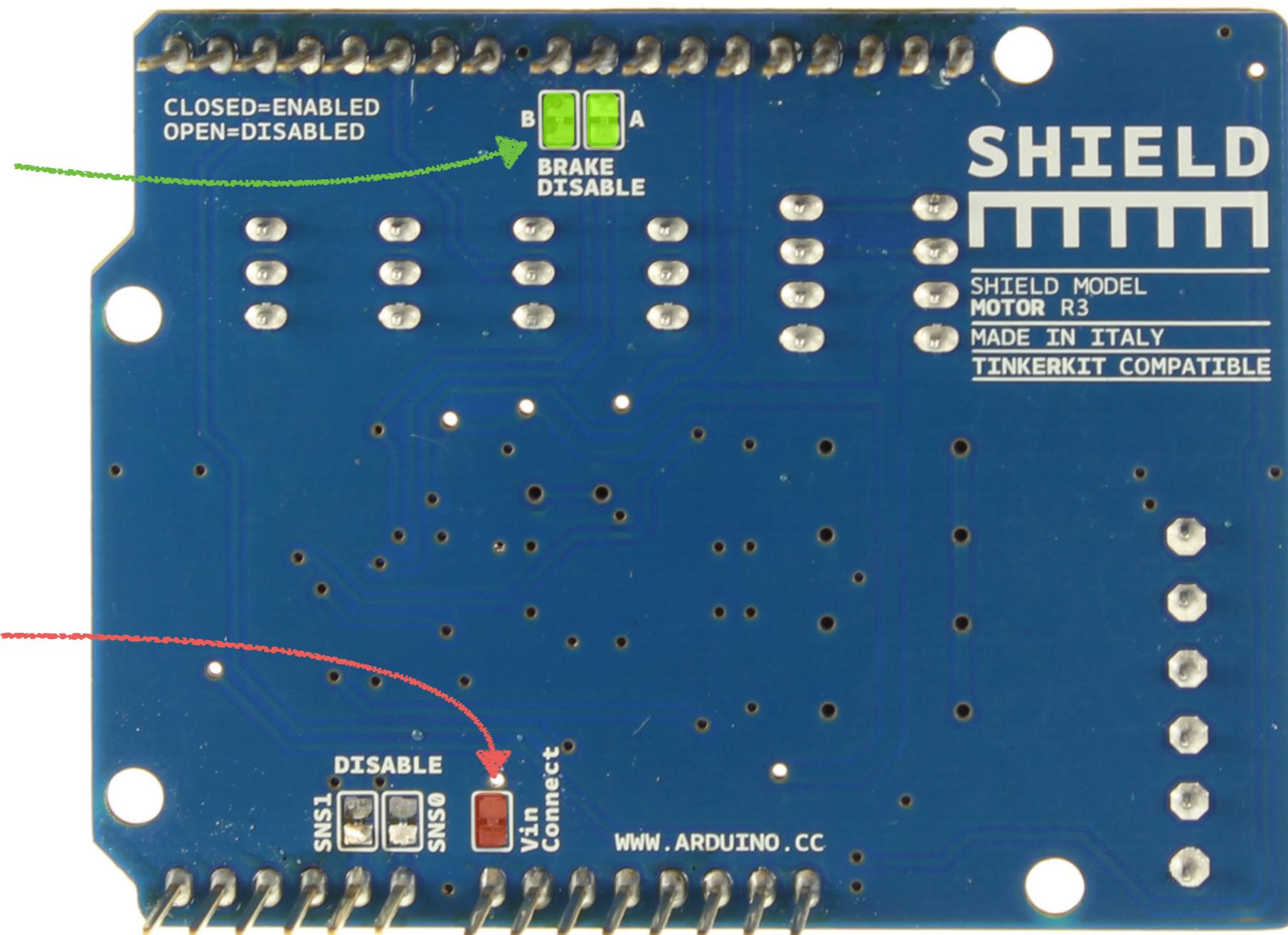
*Cut these traces to disable the brake control circuit and thereby free up pins 8 and 9 for your own custom use.*

### **V-IN Connect**

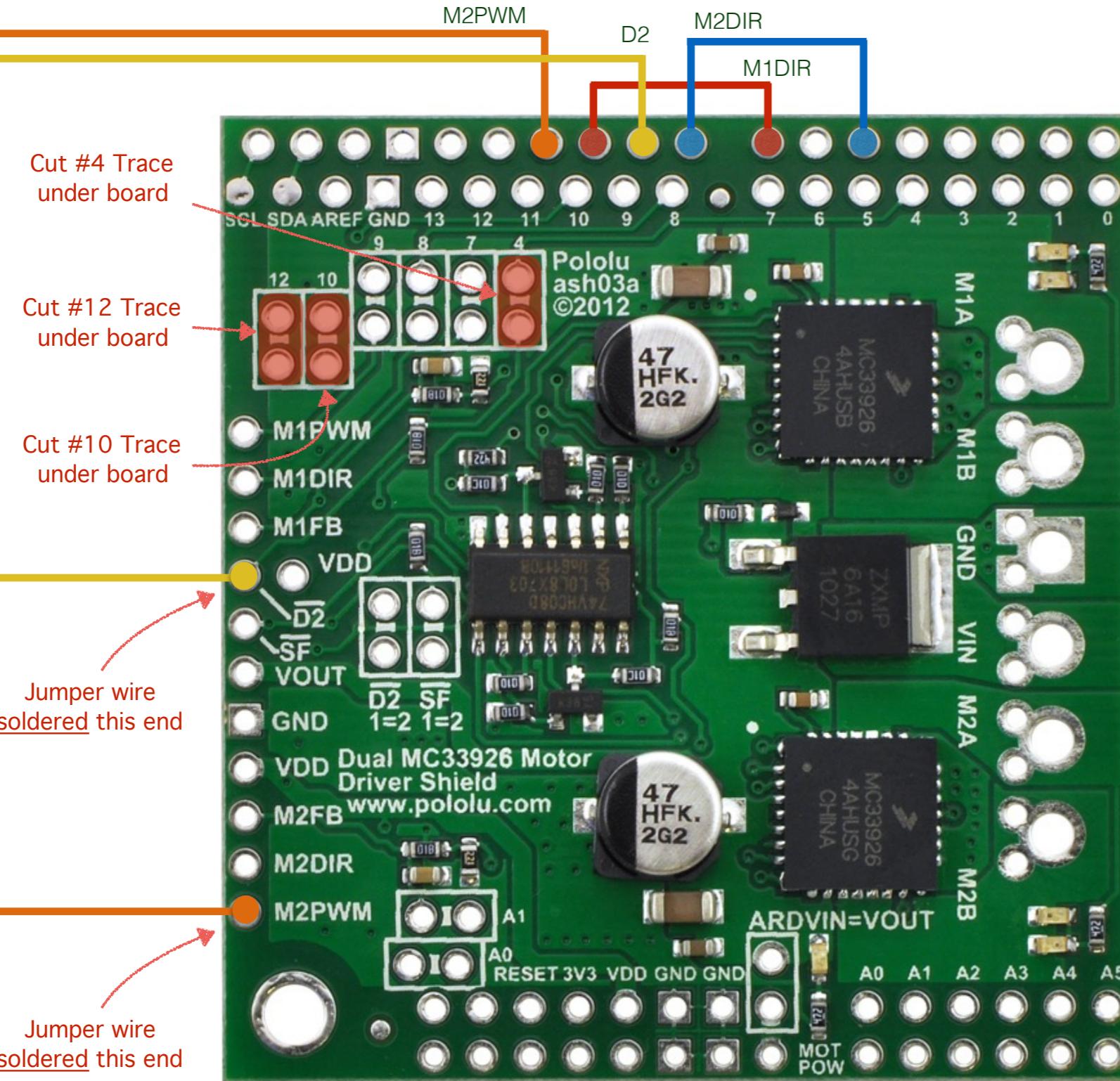
Normally, DC Voltage supplied to the input terminals of the Arduino Motor Shield will be passed through to the Uno or Mega as well.

*Cut this trace to break the linkage.*

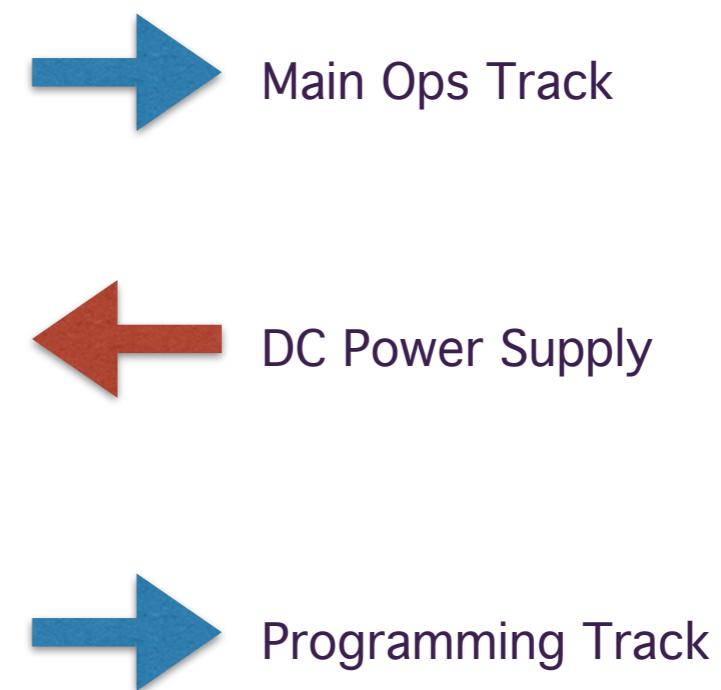
**Highly recommended** if you are using more than 12V to power the Arduino Motor Shield outputs.



## Jumper wires inserted (not soldered) into header

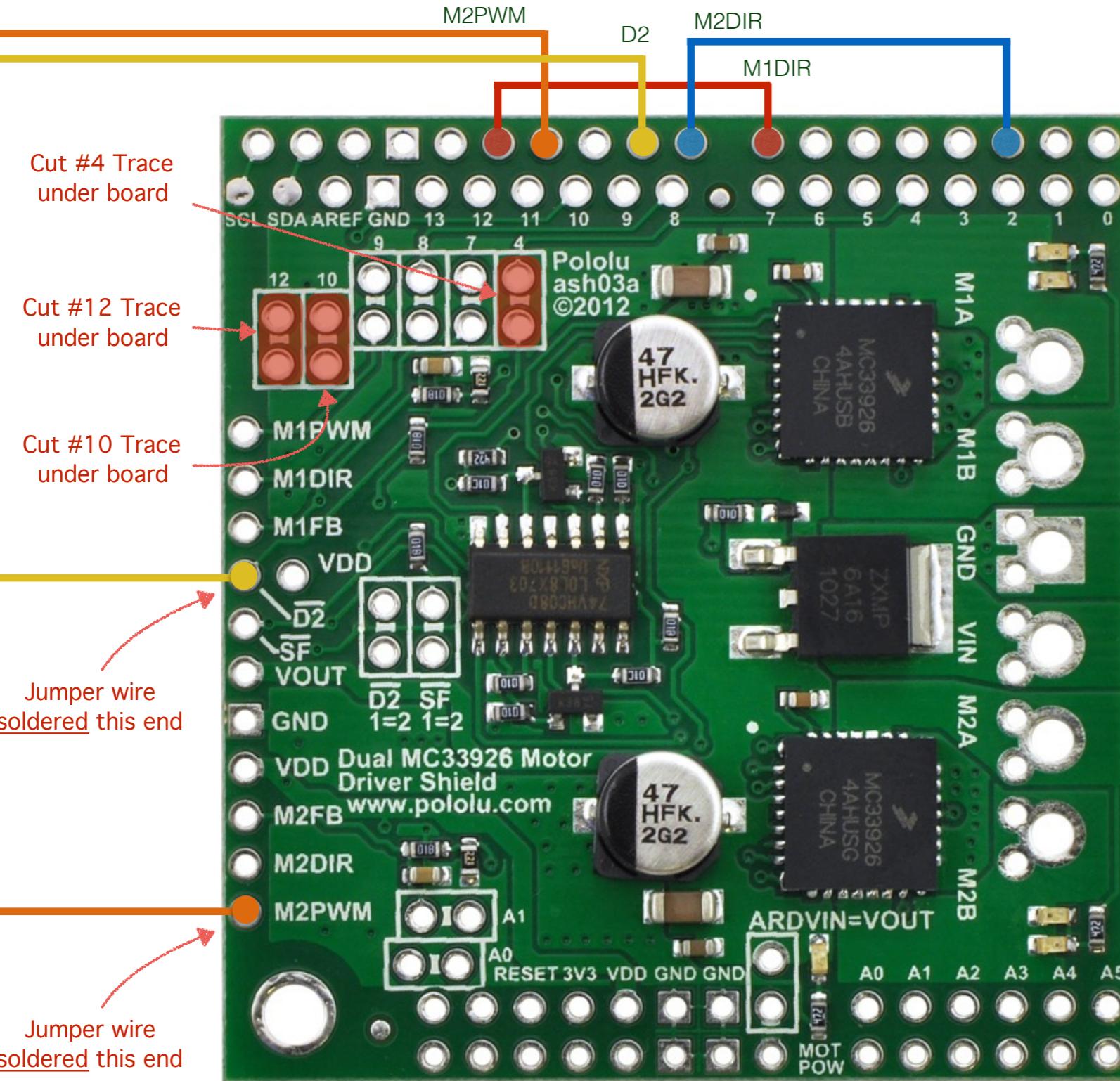


DCC++ Base Station Signal Name	Pololu Motor Shield
SIGNAL_ENABLE_PIN_MAIN	9
SIGNAL_ENABLE_PIN_PROG	11
CURRENT_MONITOR_PIN_MAIN	A0
CURRENT_MONITOR_PIN_PROG	A1
DCC_SIGNAL_PIN_MAIN	10
DCC_SIGNAL_PIN_PROG	5
DIRECTION_MOTOR_CHANNEL_PIN_A	7
DIRECTION_MOTOR_CHANNEL_PIN_B	8

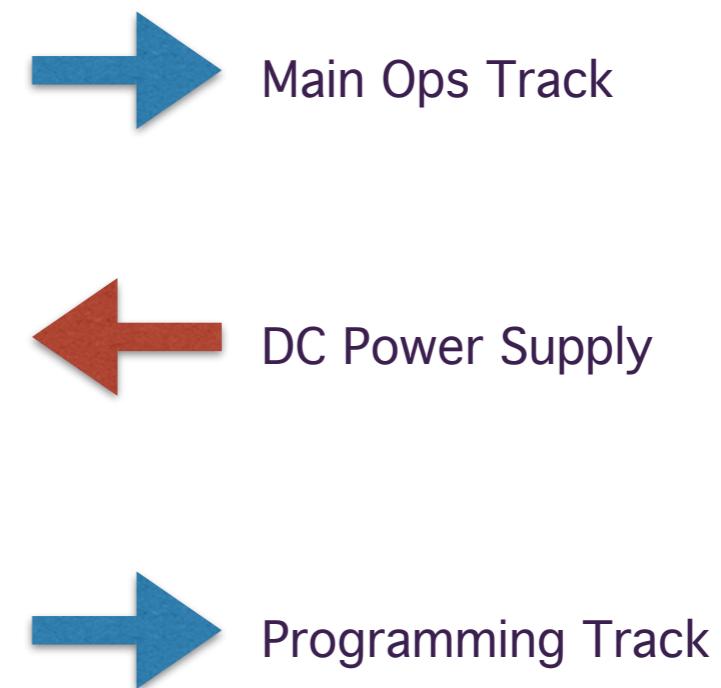


**Pin Mappings for  
Arduino UNO  
with  
Pololu MC33926  
Motor Shield**

## Jumper wires inserted (not soldered) into header



DCC++ Base Station Signal Name	Pololu Motor Shield
SIGNAL_ENABLE_PIN_MAIN	9
SIGNAL_ENABLE_PIN_PROG	11
CURRENT_MONITOR_PIN_MAIN	A0
CURRENT_MONITOR_PIN_PROG	A1
DCC_SIGNAL_PIN_MAIN	12
DCC_SIGNAL_PIN_PROG	2
DIRECTION_MOTOR_CHANNEL_PIN_A	7
DIRECTION_MOTOR_CHANNEL_PIN_B	8



**Pin Mappings for  
Arduino MEGA  
with  
Pololu MC33926  
Motor Shield**