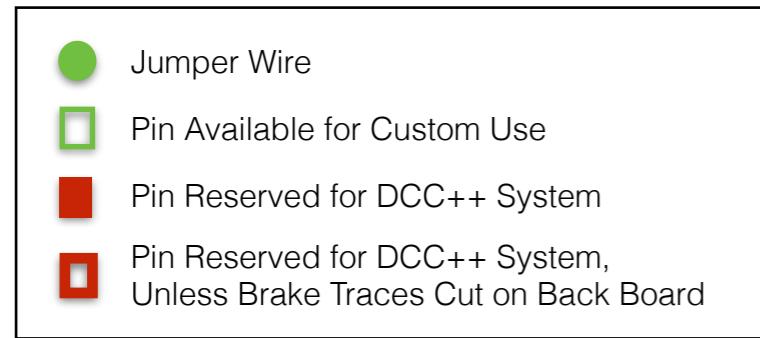


DCC++ Base Station Signal Name	Arduino Motor Shield
SIGNAL_ENABLE_PIN_MAIN	3
SIGNAL_ENABLE_PIN_PROG	11
CURRENT_MONITOR_PIN_MAIN	A0
CURRENT_MONITOR_PIN_PROG	A1
DCC_SIGNAL_PIN_MAIN	10
DCC_SIGNAL_PIN_PROG	5
DIRECTION_MOTOR_CHANNEL_PIN_A	12
DIRECTION_MOTOR_CHANNEL_PIN_B	13

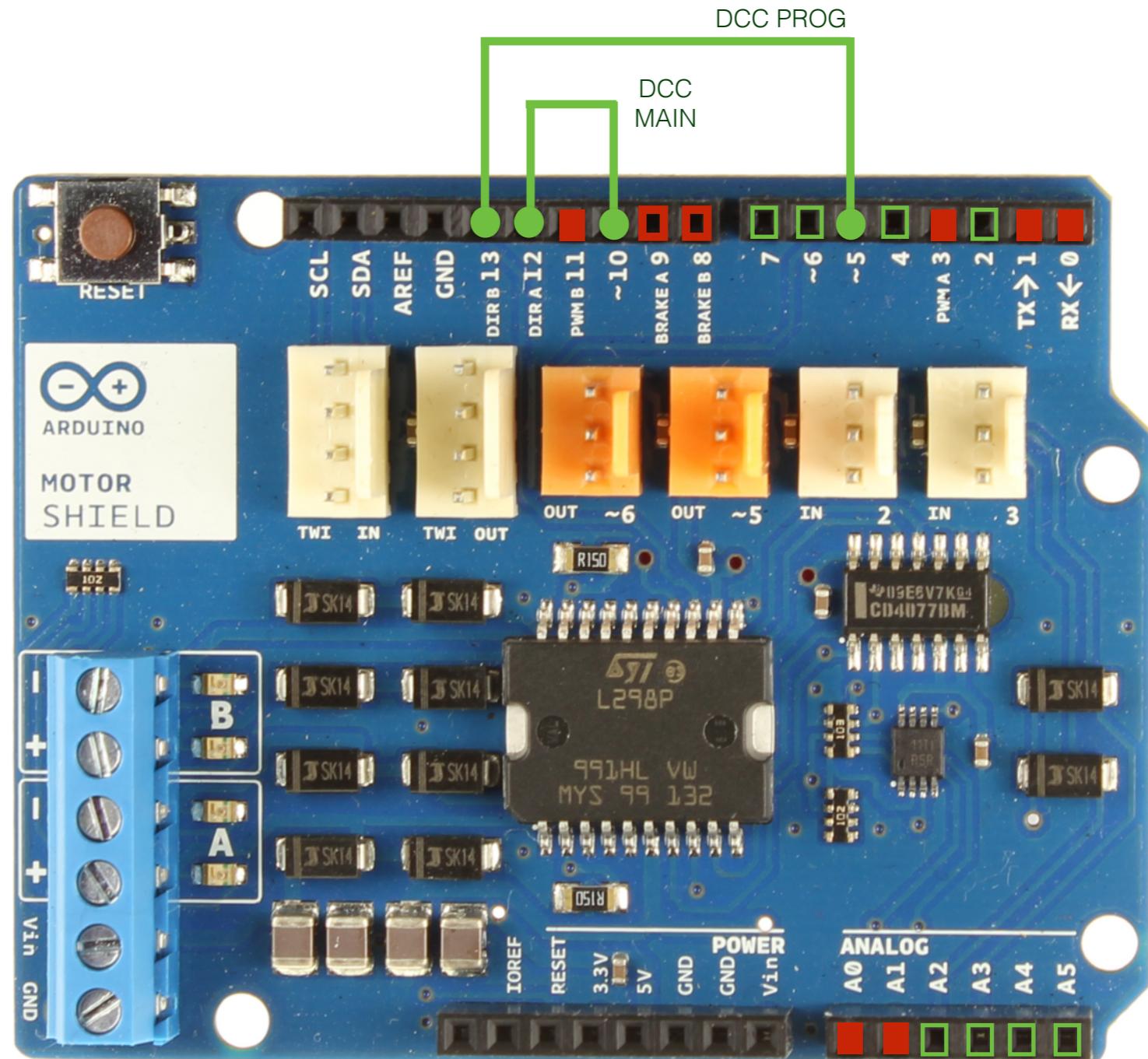
Pin Mappings for Arduino UNO with Arduino Motor Shield



Programming Track

Main Ops Track

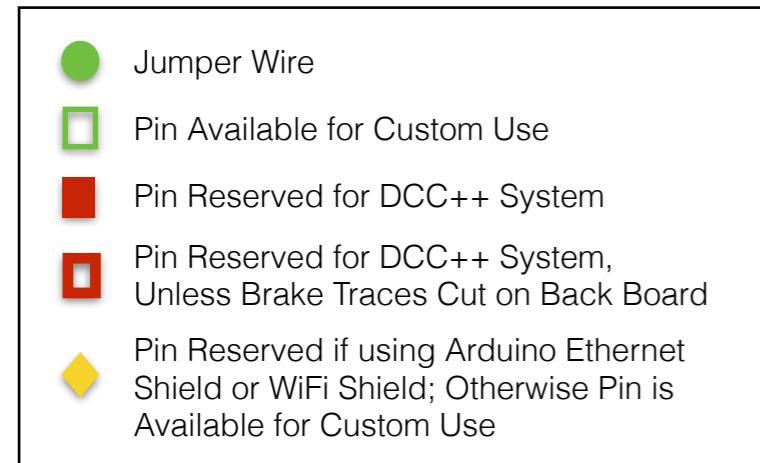
DC Power Supply*



*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

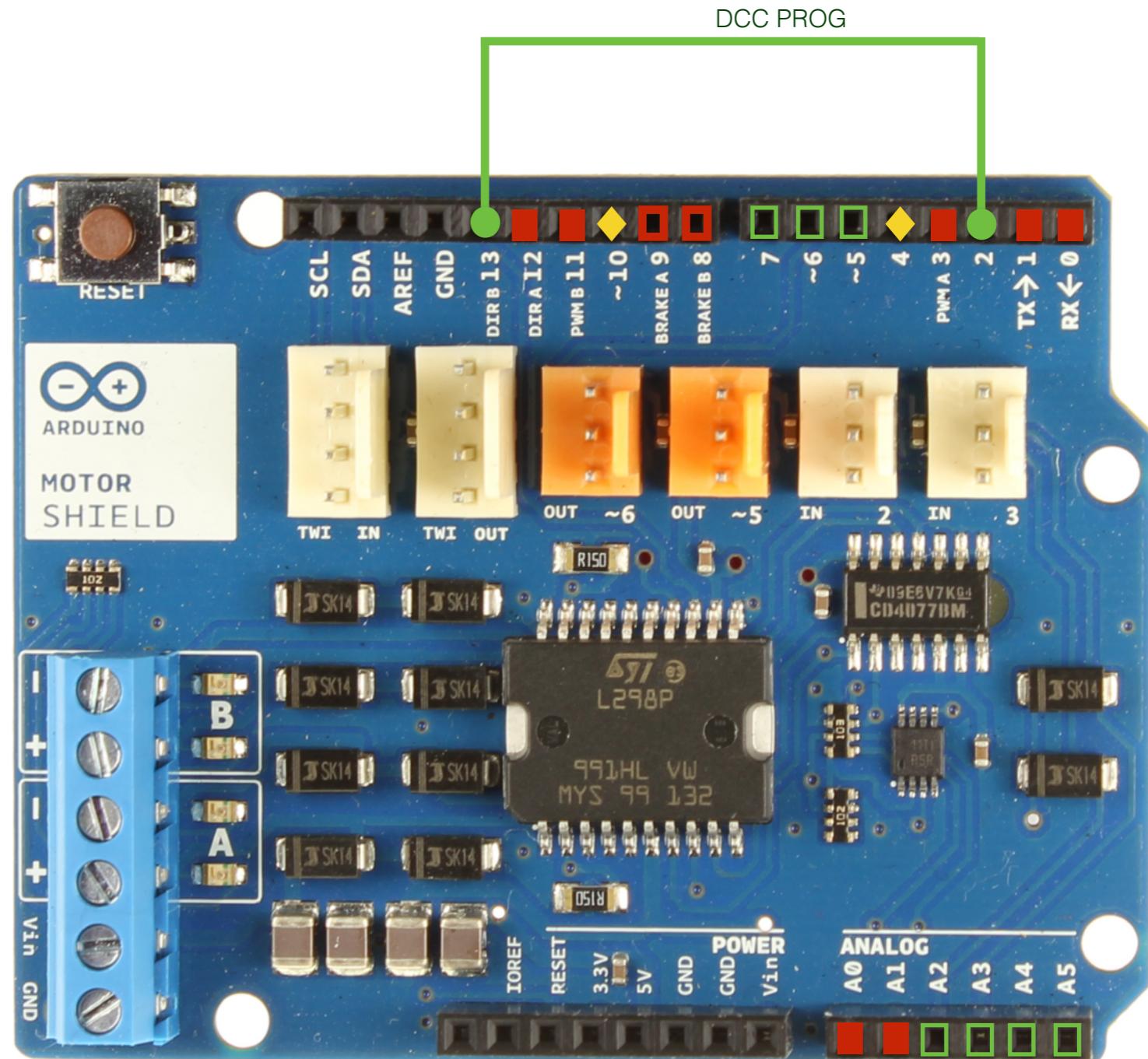
Pin Mappings for Arduino MEGA with Arduino Motor Shield



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.

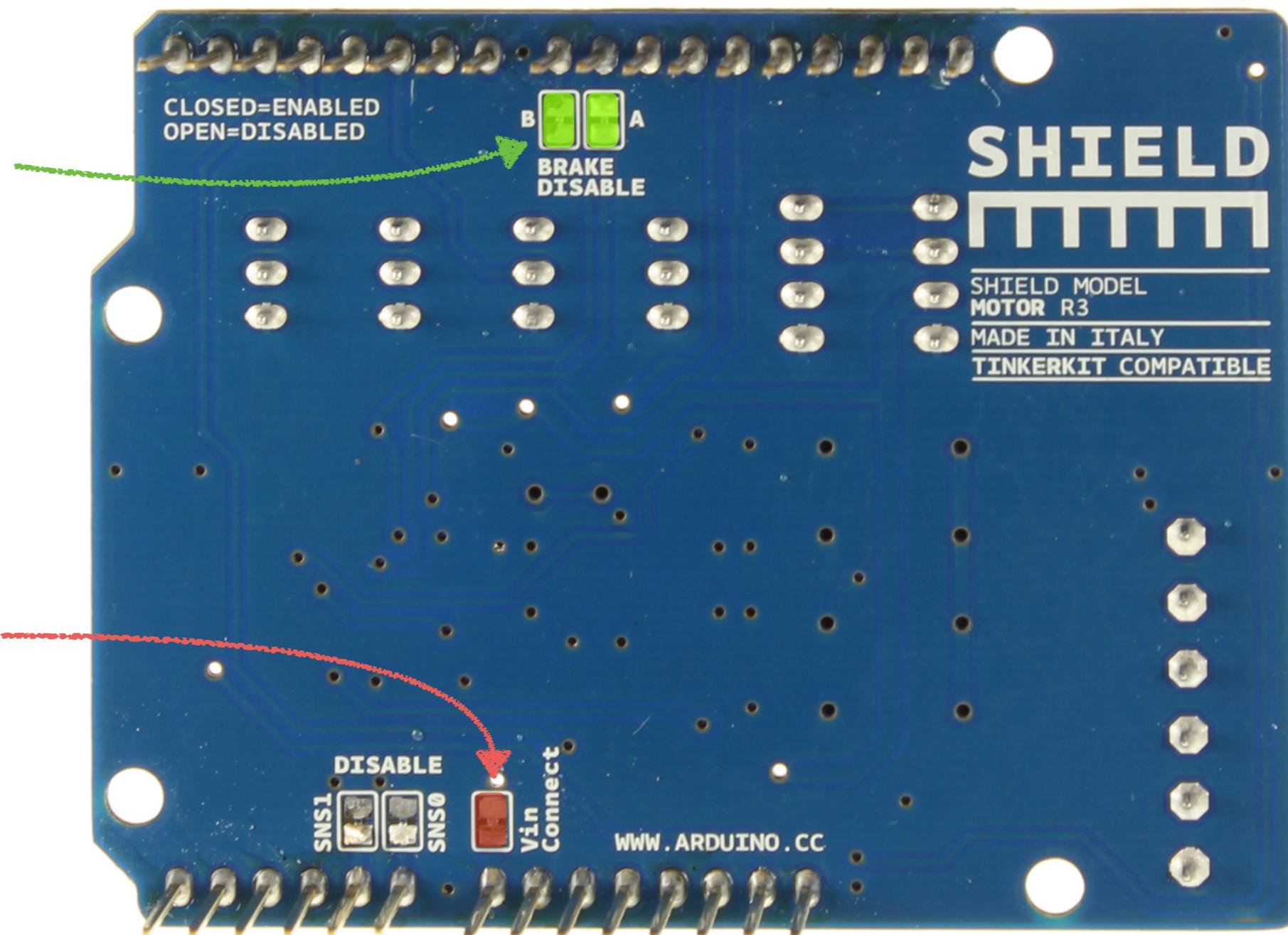
Cut these traces to disable the brake control circuit and thereby free up pins 8 and 9 for your own custom use.

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.

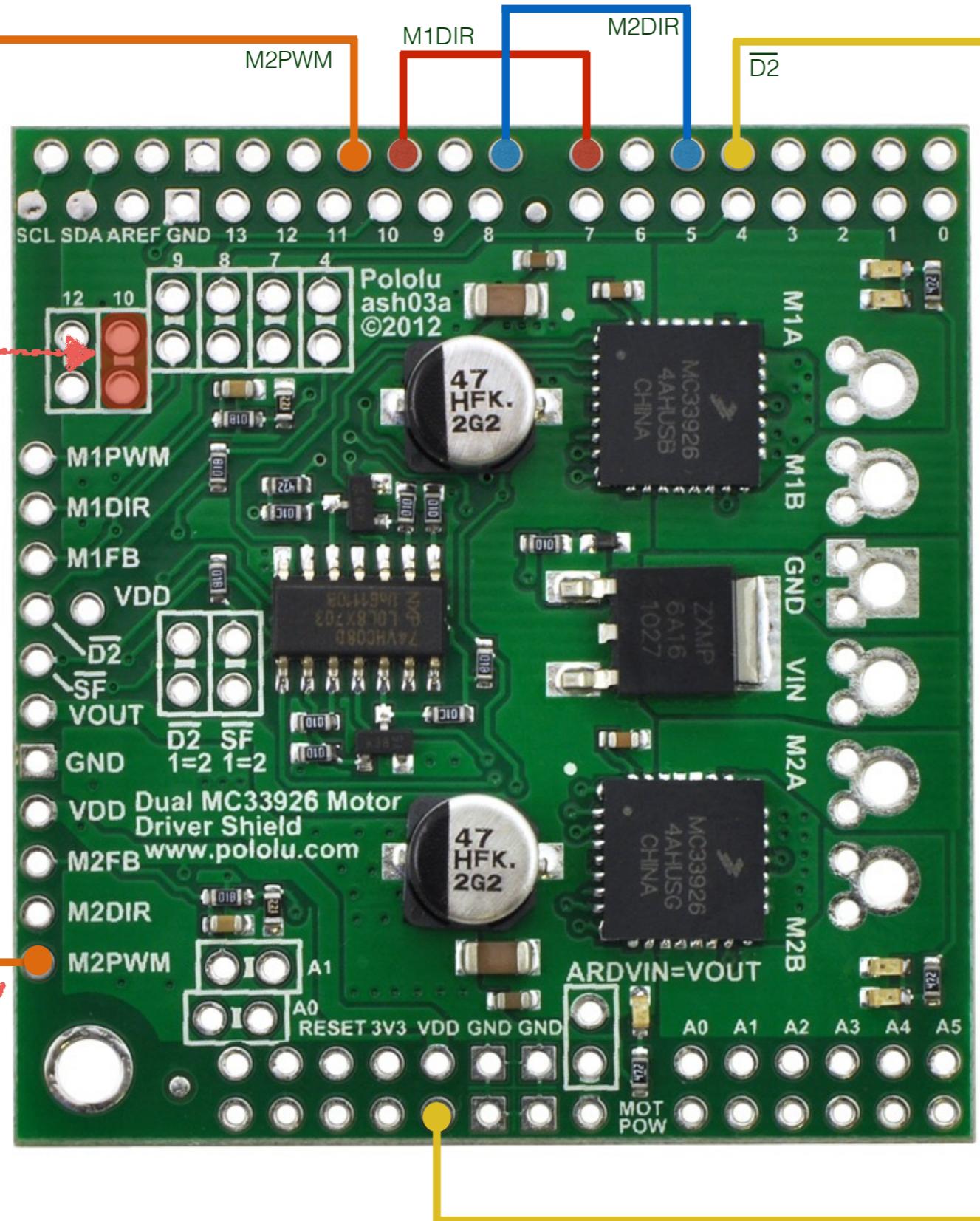
Cut this trace to break the linkage.

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



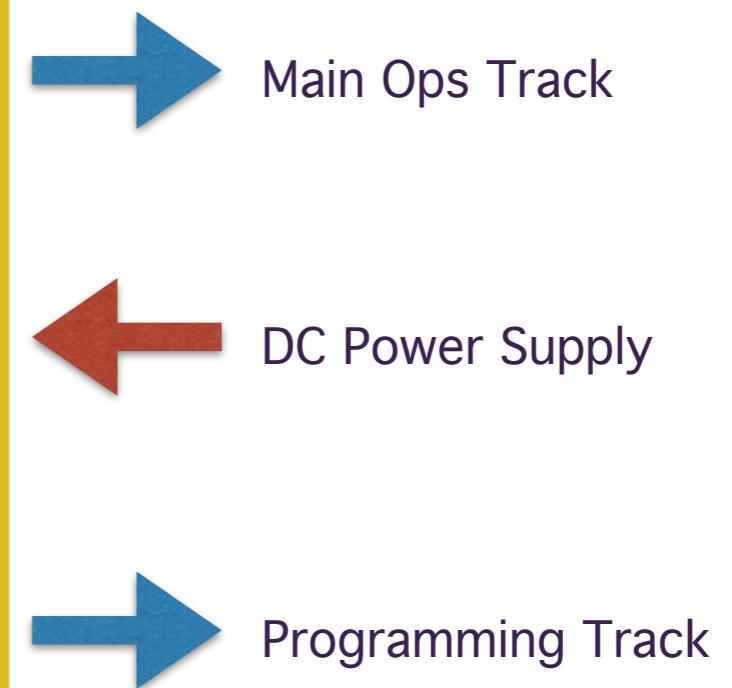
Jumper wires inserted (not soldered) into header

Cut #10
Trace under
board



Jumper wire
inserted
(not soldered) into header

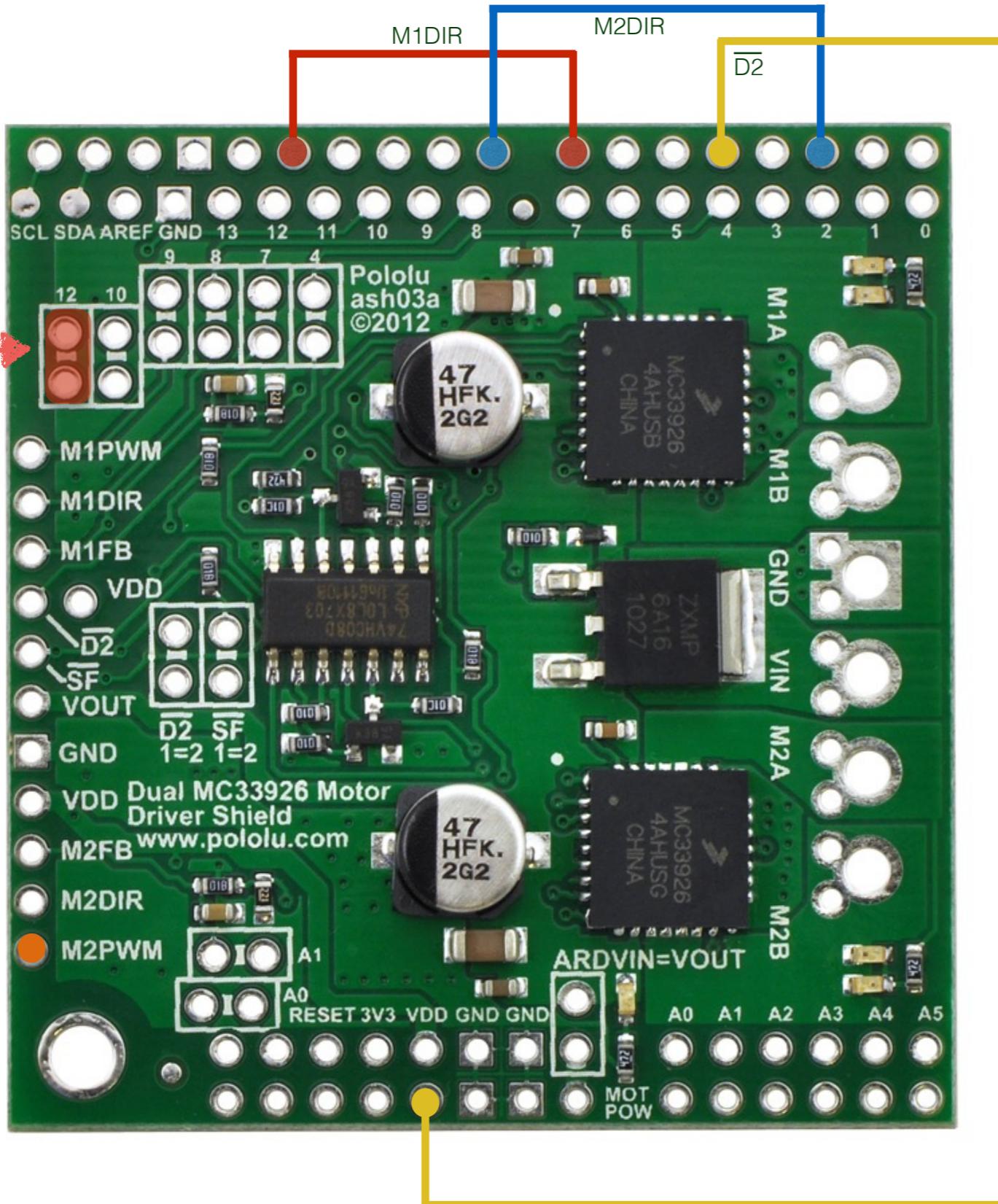
DCC++ Base Station Signal Name	Pololu Motor Shield
SIGNAL_ENABLE_PIN_MAIN	9
SIGNAL_ENABLE_PIN_PROG	11
CURRENT_MONITOR_PIN_MAIN	A0
CURRENT_MONITOR_PIN_PROG	A1
DCC_SIGNAL_PIN_MAIN	10
DCC_SIGNAL_PIN_PROG	5
DIRECTION_MOTOR_CHANNEL_PIN_A	7
DIRECTION_MOTOR_CHANNEL_PIN_B	8



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

Jumper wires inserted (not soldered) into header

Cut #12
Trace under
board



Jumper wire inserted
(not soldered) into header

DCC++ Base Station Signal Name	Pololu Motor Shield
SIGNAL_ENABLE_PIN_MAIN	9
SIGNAL_ENABLE_PIN_PROG	10
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

- Main Ops Track →
← DC Power Supply
→ Programming Track

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