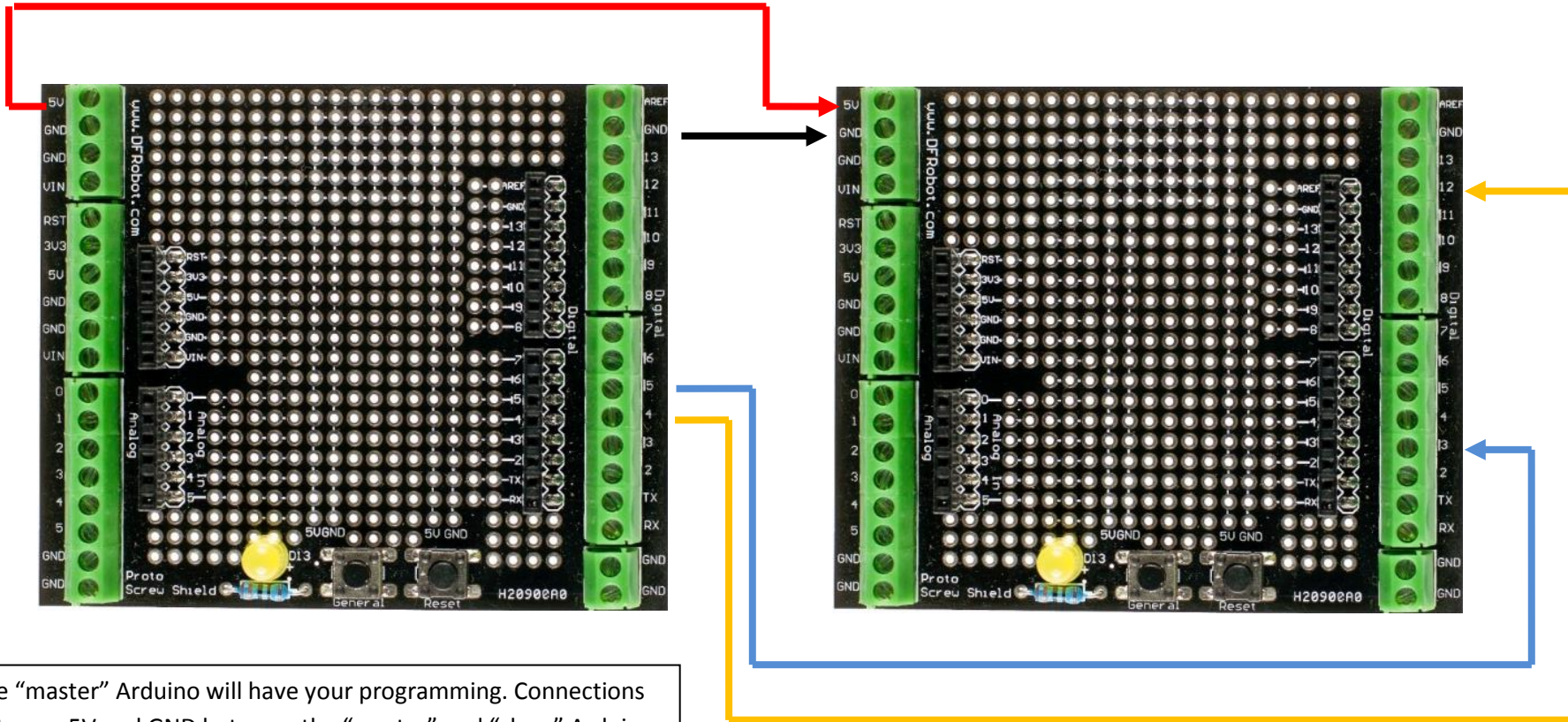


MASTER

SLAVE



The “master” Arduino will have your programming. Connections between 5V and GND between the “master” and “slave” Arduino pins must be made (seen in red and black). A free PWM pin from the “master” Arduino must connect to the corresponding enable pin to run the “slave” motor (blue wire above). Available PWM pins are 3, 5, 6, 9, 10 and 11. You cannot use pins 3 or 11 if you are already operating motors on the “master” motor driver board. Use an available digital pin from the “master” Arduino and connect to the corresponding direction pin to run the “slave” motor direction (orange wire above).

The “slave” Arduino will not need a USB connection, but the motor driver board will need a 12V power supply. The default pins to communicate with the motor driver board on the “slave” Arduino is listed on the table (right). This example shows how to properly connect to operate the “Coil A” motor (pin D3 with blue wire to enable, pin D12 with orange wire for direction). To operate the “Coil B” motor, connect the blue wire to D11 for enable, and connect the orange wire to D13 for direction.

Pin	Function
D3	ENABLE1
D12	DIRECTION1
D11	ENABLE2
D13	DIRECTION2

Arduino pins used by default to control the two motor outputs.

Additional information on the motor driver board: http://ruggedcircuits.com/html/rugged_motor_driver.html#RewiringControllInputs