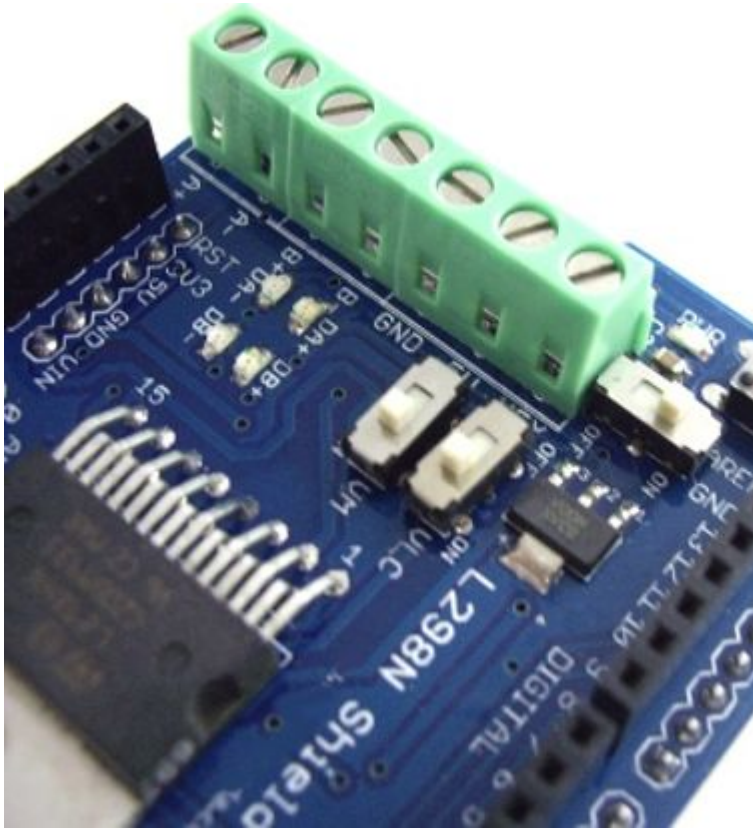


VLO（Voltage Logic Onboard）：

When the motor drive chip L298N work , there are two voltage: logical vo
voltage (such as 7.2 V, 9V or 12V). In order to convert the motor voltage
logic voltage, and this motor driven shield supply with a corresponding vo
Because the voltage transform circuit's working voltage is restricted (less
greater than 20V, then can not use this voltage transform circuit. The fun
choose the open status of logic transform circuit (switch to "ON") or the c
transform circuit(switch to "OFF").

(VLC) （Voltage Logic Connected）：

Besides L298N motor driven shield supply with a corresponding voltage
also directly connect with Arduino's 5V logical voltage terminal to get 5v
The function of VLC switch is used for L298N motor driven shield to choo
with Arduino's 5V logical voltage terminal (switch to "ON") or brea
logical voltage terminal(switch to "OFF").

VM（Voltage Motor）：

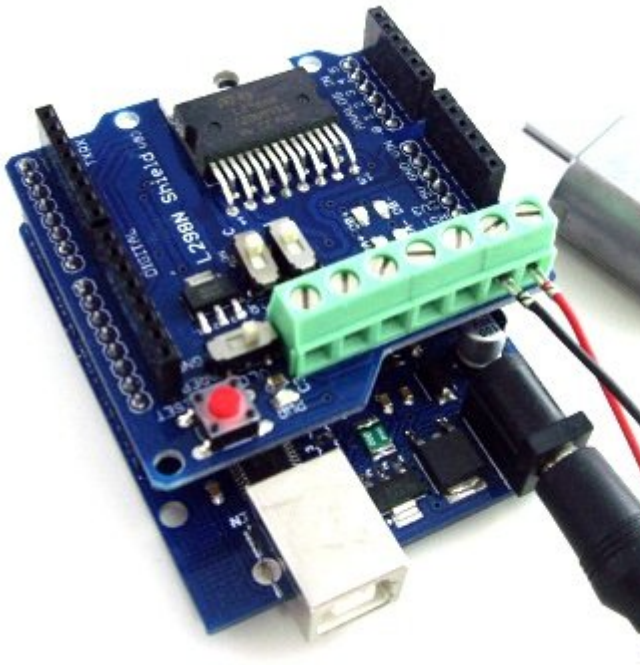
The function of VM is used to choose motor voltage. When L298
connecting with Arduino . there are two ways to supply power to
1、Through Vin pin of Arduino (switch to Vin)
2、Through VEX terminals of motor driven shield (switch to VEX).

Compared with Arduino, L298N motor driver shield can bear higher volta
must pay special attention to circuit connection. Here are some typical ci
for references :

1. Motor voltage is from 6v to 12 v

Generally speaking, Arduino can get power through external 6V - 12V tra
Arduino), if your motor voltage just in this range, that you can just use thi
to supply power simultaneously for Arduino and motor. Then VLO, VLC a

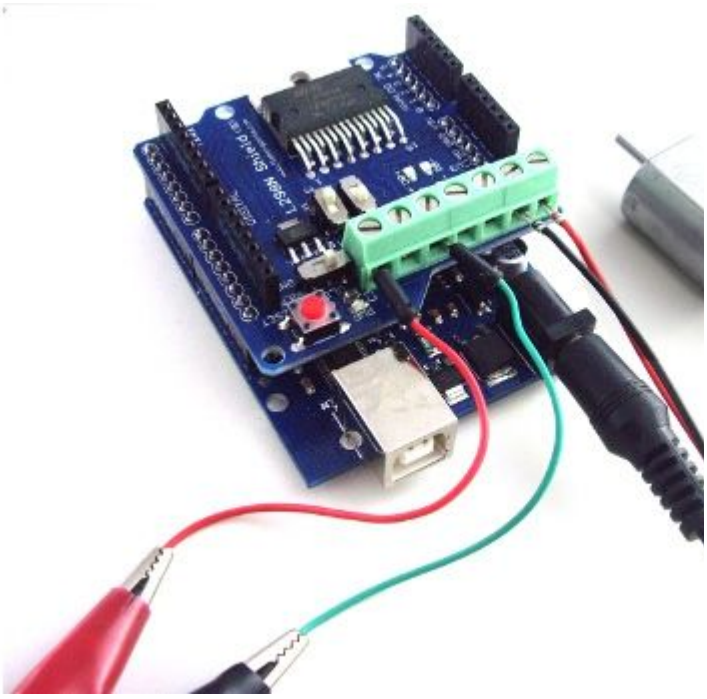
* VLO : OFF
* VLC : ON
* VM : VIN



2. Motor voltage is less than 6V

You can only supply powor to motor through VEX terminals and GND ter
shield ,because the 5V voltage transform circuit of motor driven shield ca
is too low), so we can only connect with 5V terminals of Arduino to suppl
our motor shield. Then VLO, VLC and VM are set as below :

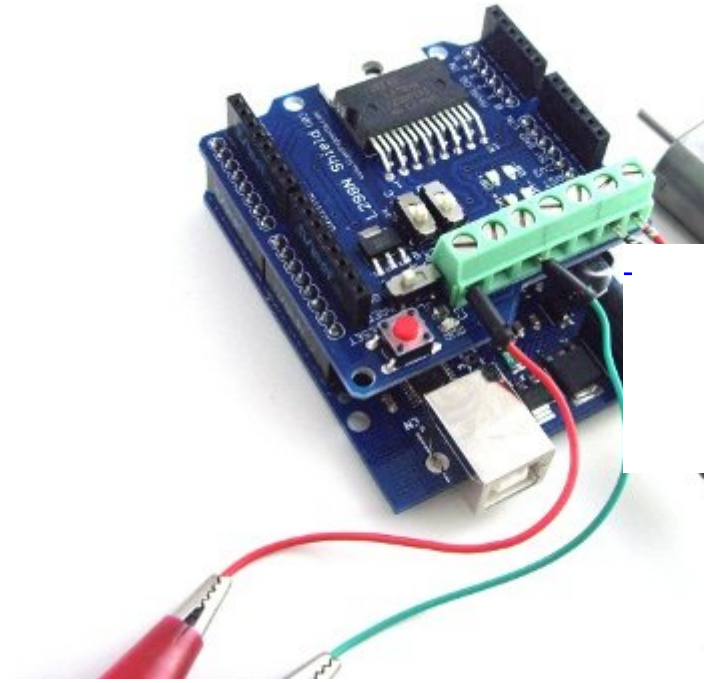
* VLO : OFF
* VLC : ON
* VM : VEX



3. Motor voltage is from 12V to 20V

You can only supply powor to motor through VEX terminals and GND ter
shield ,but the 5V voltage transform circuit of motor driven shield can wo
VM are set as below :

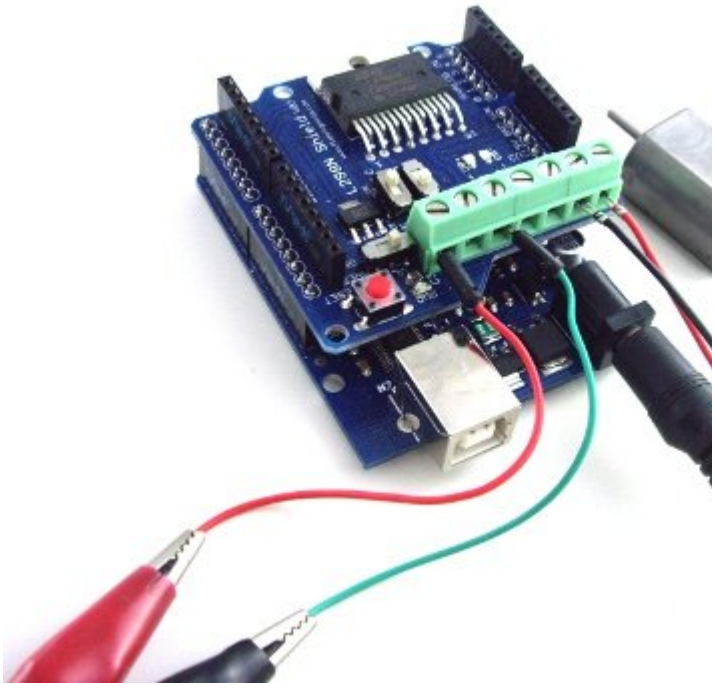
* VLO : ON
* VLC : OFF
* VM : VEX



4. Motor voltage is from 20V to 46V

You can only supply powor to motor through VEX terminals and GND ter
shield ,because the 5V voltage transform circuit of motor driven shield ca
is too high), so we can only connect with 5V terminals of Arduino to supp
our motor shield. Then VLO, VLC and VM are set as below :

* VLO : OFF
* VLC : ON
* VM : VEX



More information is the same as Arduino motor drive shield-L298N

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