Examples of wiring between a drive and a brushless dc motor

The motor signal terminal is type D quick plug-in, and pin number is in the black rubber cover. If you cannot see the pin number, you can take off the rubber cover.

Motor Terminal   Controller Terminal

Red	Motor U	White plastic case	→	A pile
Yellow	Motor V	Green plastic case	→	B pile
Blue	Motor W	Blue plastic case	→	C pile

Signal Lines

Controller Line Color	Controller Line definition	Pin No.		Hall Line Color	Hall Line definition	Pin No.
Purple	5V	7	→	red	5V	1
Black	0V	14	→	black	0V	2
Yellow	Hall A	13	→	Yellow	Hall A	4
Green	Hall B	12	→	Blue	Hall B	5
Blue	Hall C	11	→	Green	Hall C	6

Wiring diagram：

1.The motor lines

2.The signal lines
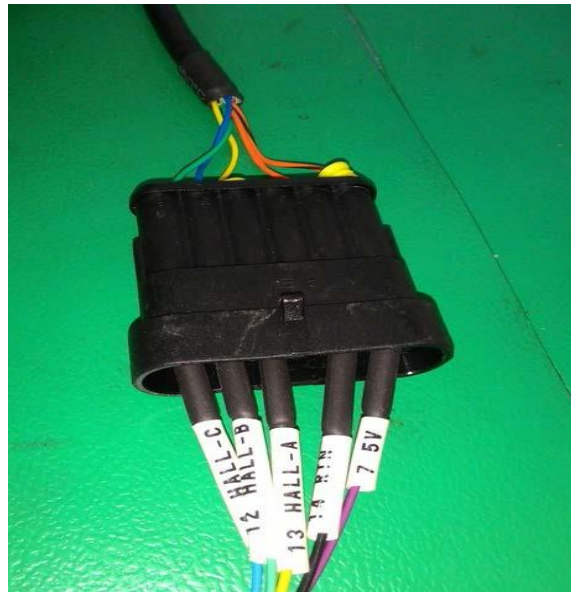
3.After the wire connecting the motor to the controller is completed.

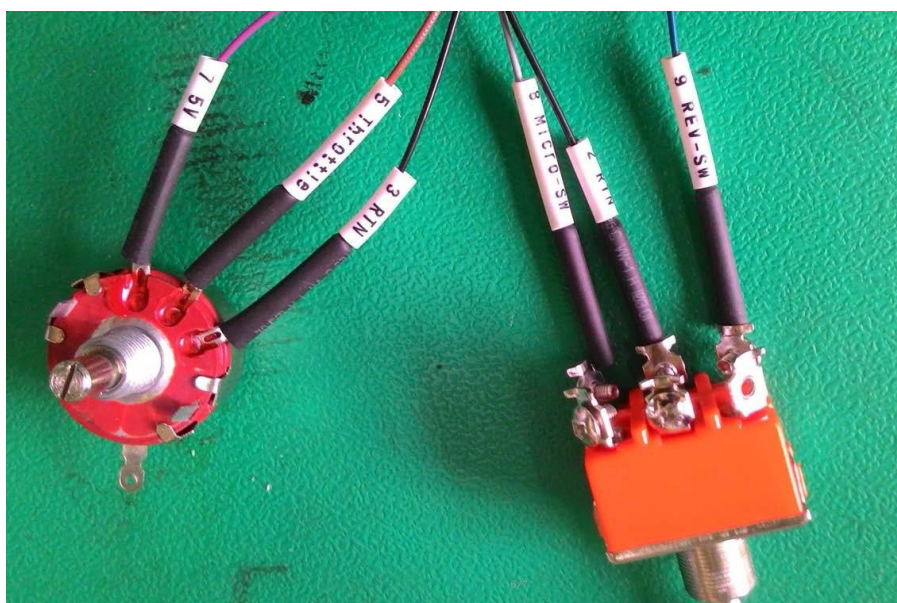**Power is connected to the controller's B+ (24V+,48V+,72V+…),B- pile(0V).**

1. No. 1 (PWR) of the controller harness is connected to B+, connected with the on/off switch, and controlled start up.
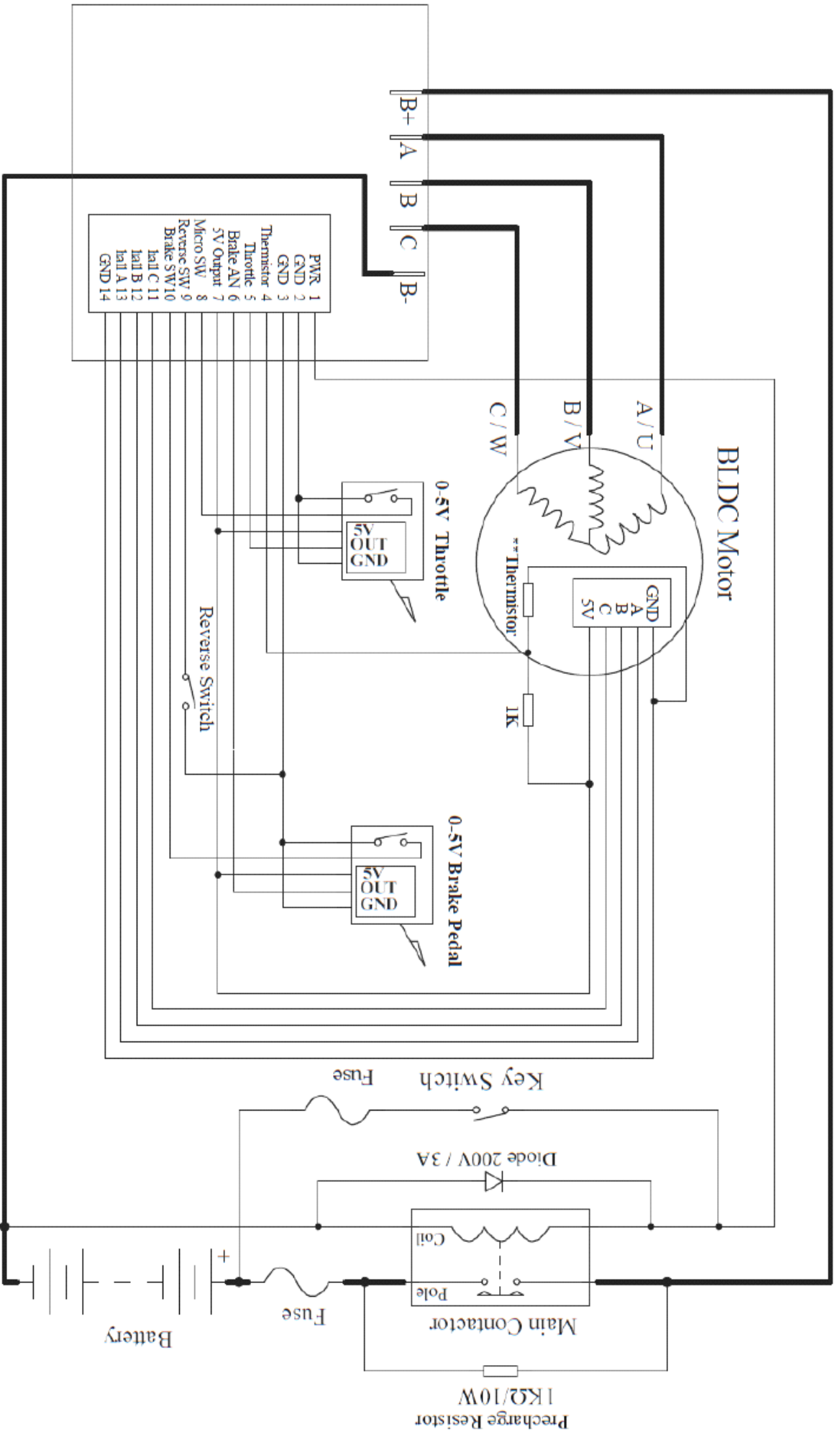
2.Wire harness 3（RTN） 5(THROTTLE) 7(5V) connectors potentiometer

The no. 2 and no. 8 connectors are one operating direction of the motor, and the no. 2 and no. 9 connectors

are reverse.

NOTE: Potentialmeter can be used to output 0-5V.
Please securely wire B- before any other wiring. Never put contactor or break on B-.
** Thermistor is optional item. default to KTY84-130.

B+
A
B
C
B-

PWR 1
GND 2
GND 3
Thermistor 4
Throttle 5
Brake AN 6
5V Output 7
Micro SW 8
Reverse SW 9
Brake SW 10
Hall C 11
Hall B 12
Hall A 13
GND 14

C / W
B / V
A / U

BLDC Motor

**Thermistor

GND
A
B
C
5V

1K

5V
OUT
GND

0-5V Throttle

Reverse Switch

5V
OUT
GND

0-5V Brake Pedal

Fuse
Key Switch

Diode 200V / 3A

Coil

Pole
Main Contactor

Fuse

Battery

Precharge Resistor
1KΩ/10W