

SPD-482000BLDC-B 48-72 Volt DC 1500-2000 Watt Brushless DC Motor Controller

Battery Pack Compatibility: Works with 48 Volt, 60 Volt, and 72 Volt Battery Packs

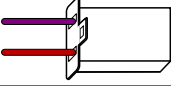
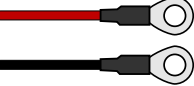
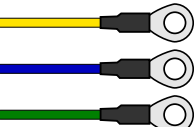
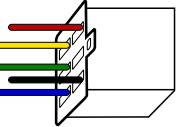
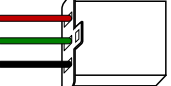
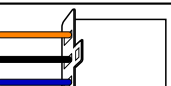
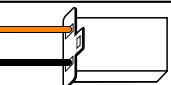
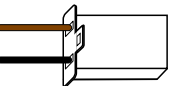
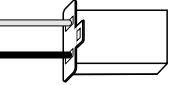
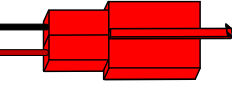
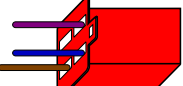
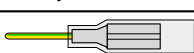
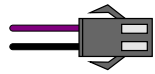

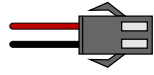
Motor Compatibility: Works with 1500-2000 Watt Brushless DC Motors

Current Limit: 45 Amps (45 Amps Maximum Current Output)

Low Voltage Protection: 40 ± 0.5 Volts

Works only with Sensored Brushless DC Motors

Compatible with 120 Degree and 60 Degree Motor Phases

Power Switch Wires		Purple to Power Switch Contact Red to Power Switch Contact
Input Power Wires		Red Wire to Battery Positive + Black Wire to Battery Negative -
Motor Phase Wires		Yellow to Yellow Motor Phase Wire Blue to Blue Motor Phase Wire Green to Green Motor Phase Wire
Motor Hall Sensor Wires		Red to Red Motor Hall Wire +5V Black to Black Motor Hall Wire Ground Yellow to Yellow Motor Hall Wire Green to Green Motor Hall Wire Blue to Blue Motor Hall Wire
Throttle Wires		Red +5 Volt Output Green 1-4 Volt Signal Input Black Ground
† 3 Speed Control Wires		Orange to Black for High Speed Black to No Wire for Normal Speed Blue to Black for Low Speed
† Cruise Control Wires		Pink to Cruise Control Switch Contact Black to Cruise Control Switch Contact
† Reverse Wires		Brown to Reverse Switch Contact Black to Reverse Switch Contact
† Brake Switch Wires		White to Brake Switch Contact Black to Brake Switch Contact
† Alarm Power Wires		Red to Alarm Positive + Input Black to Alarm Positive - Input
† Alarm Signal Wires		Black to Vehicle Power On Signal Blue to Motor Disable Signal Brown to Alarm Power On Signal
† Speedometer Wire		Yellow/Green to Speedometer
† Brake Lamp Wires		Purple Battery Pack + Voltage Output Black Ground
† Start Soft / Hard Wires		Connect Together to Turn Start Hard / Soft On or Off
† ~ Power + / - Wires		Red Battery Pack + Voltage Output Black Ground

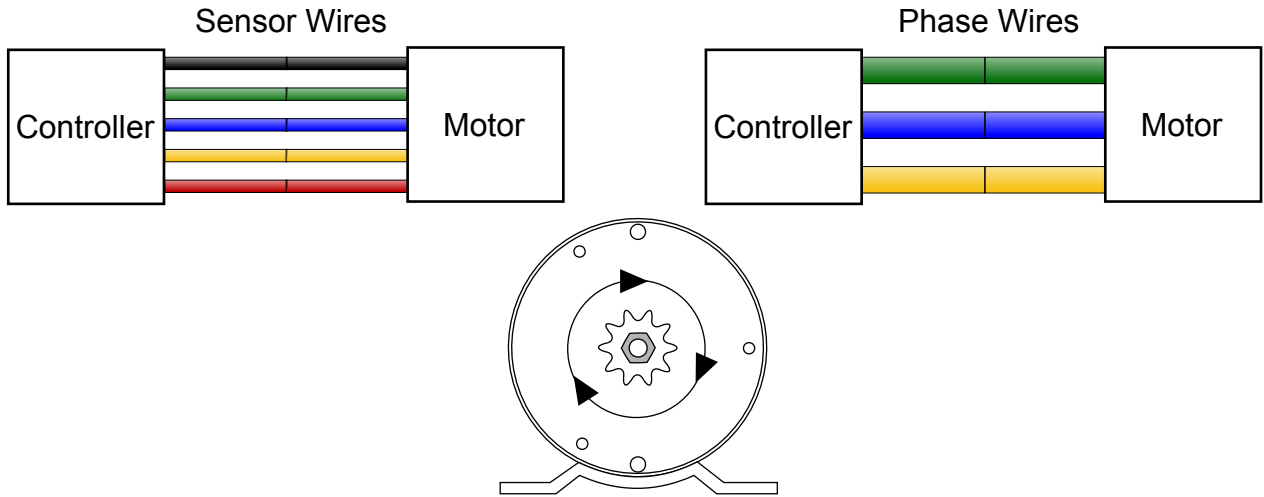
† Optional Connections: These wires do not need to be connected for the controller to operate.

~ Always on regardless of whether the power switch is on or off. For low current applications only.

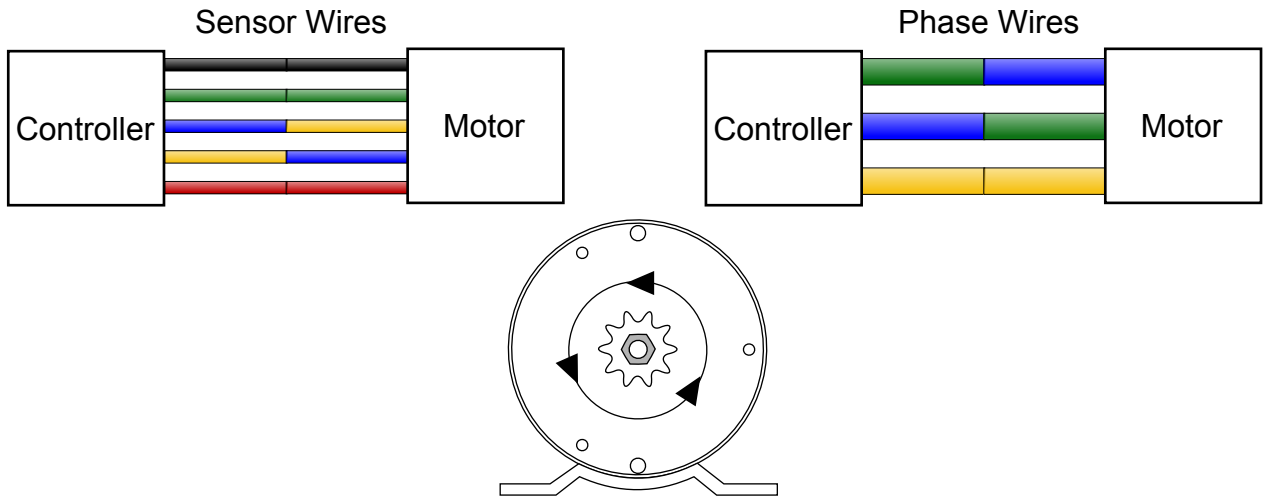
SPD-482000BLDC-B

How To Change Motor Direction

Clockwise Direction



Counterclockwise Direction



Warning: Never change the positions of the red and black sensor wires. Red must always go to red and black must always go to black otherwise damage to the motor will occur.

Installation Notes

Reverse, Brake Switch, and 3 Speed Control Wires

1. The Reverse, Brake Switch, and 3 Speed Control Wires are optional to connect to and the controller will operate normally with nothing connected to them.
2. The Reverse Wires connect to a 2 position On-Off maintained contact SPST switch.
3. The Brake Switch Wires connect to a 2 position momentary contact SPST brake switch.
4. The 3 Speed Control Wires connect to a 3 position On-Off-On maintained contact SPDT switch.