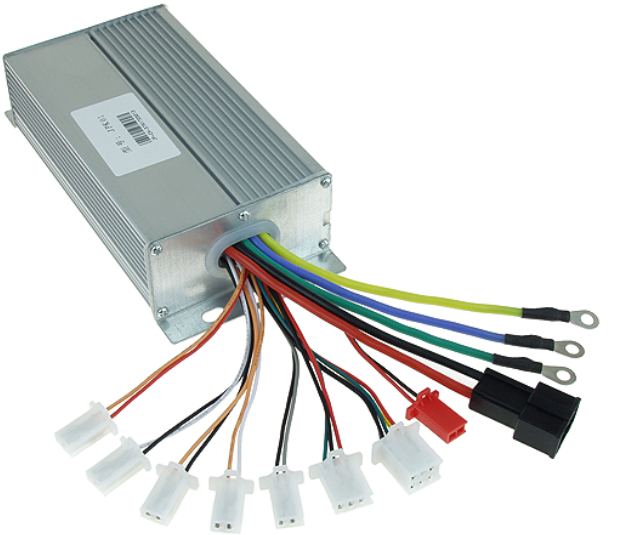
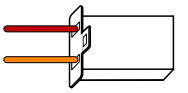
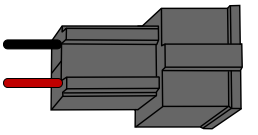
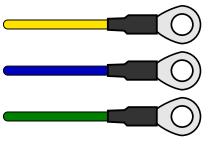
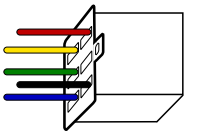
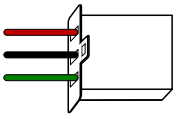
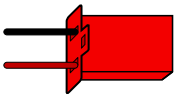
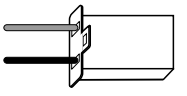
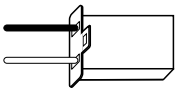
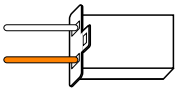
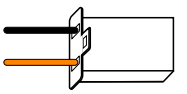
# SPD-602000BLDC 60 Volt DC 2000 Watt Brushless DC Motor Controller





Operating Voltage: 60 Volts DC (Works with 60 Volt Battery Packs)
Power: 2000 Watts (Works with 1800-2000 Watt Brushless DC Motors)
Current Limit: 40 Amps (40 Amps Maximum Current Output)
Low Voltage Protection: 52 Volts
Works with Sensored Brushless DC Motors with 120 Degree Phases
Runs Motor in Clockwise or Counterclockwise Direction (See Page 2)

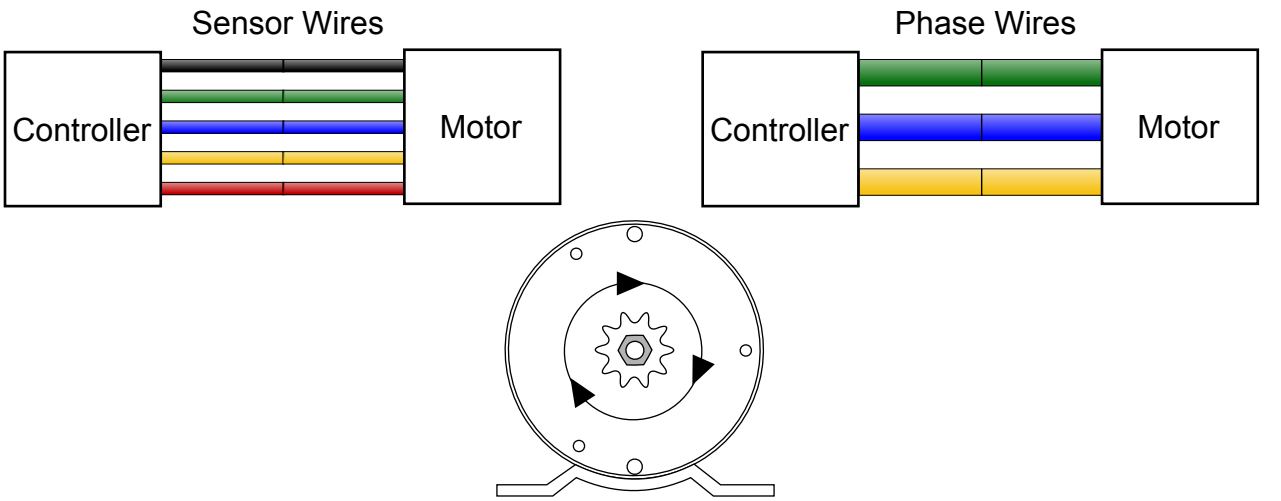
| | | |
|---|---|---|
| Power Switch Wires |  | Red to Power Switch Contact<br>Orange to Power Switch Contact |
| Input Power Wires |  | Black Wire to Battery Negative -<br>Red Wire to Battery Positive + |
| Motor Phase Wires |  | Yellow to Yellow Motor Phase U Wire<br>Blue to Blue Motor Phase V Wire<br>Green to Green Motor Phase W Wire |
| Motor Hall Sensor Wires |  | Red to Red Motor Hall Wire +5V<br>Black to Black Motor Hall Wire Negative<br>Yellow to Yellow Motor Hall U Wire<br>Green to Green Motor Hall V Wire<br>Blue to Blue Motor Hall W Wire |
| Throttle Wires |  | Red +5 Volt Output<br>Black Negative<br>Green 1-4 Volt Signal Input |
| † Charger Port Wires |  | Black to Charger Port Negative<br>Red to Charger Port Positive |
| †* Speed Limiter Wires |  | Gray to Speed Limiter Switch Contact<br>Black to Speed Limiter Switch Contact |
| † Brake Switch Wires |  | Black to Brake Switch Contact<br>White to Brake Switch Contact |
| † Brake Light Wires |  | White to Brake Light Negative<br>Orange to Brake Light Positive |
| † Battery Indicator Wires |  | Black to Battery Indicator Negative<br>Orange to Battery Indicator Positive |

† Optional Connections: These wires do not need to be connected for the controller to operate.
* When speed limiter wires are connected together the controller is in reduced power output mode.

# SPD-602000BLDC

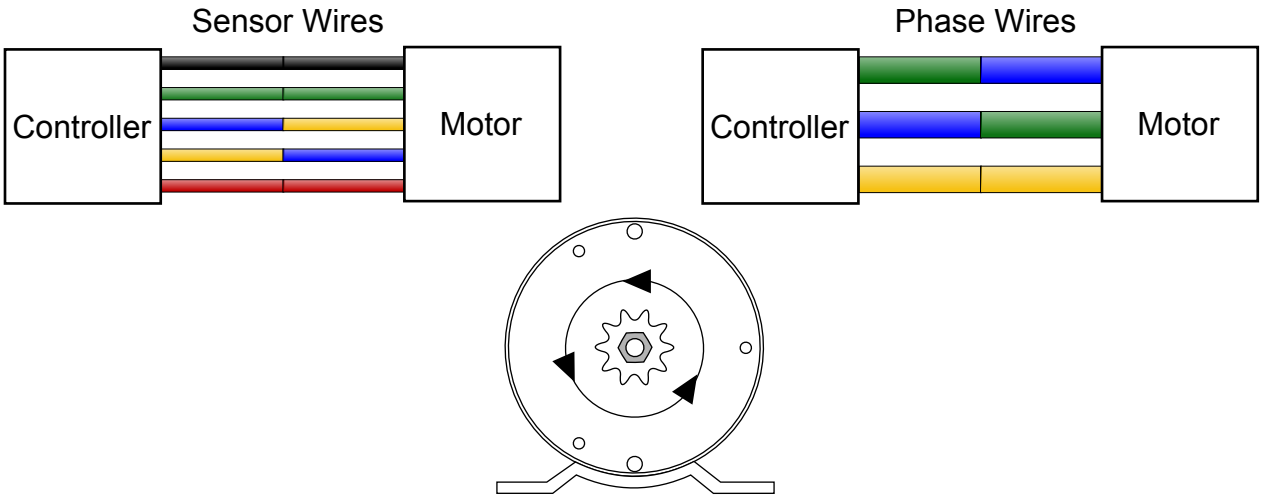
How To Change Motor Direction

## 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.