

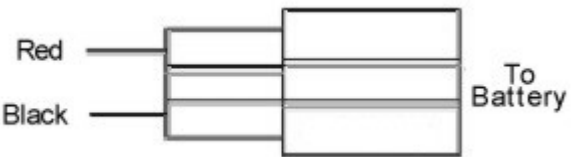
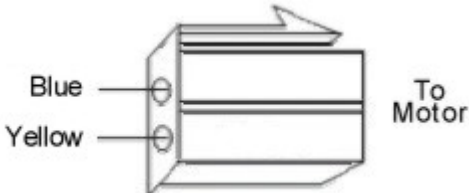
## Speed Controller SPD-YK31C Installation and Wiring

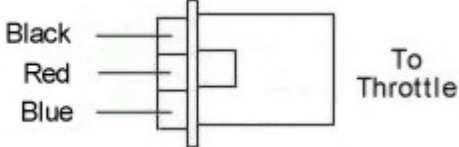
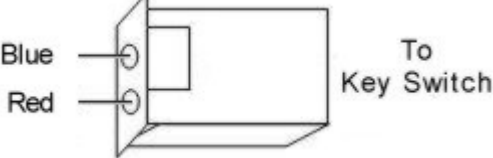
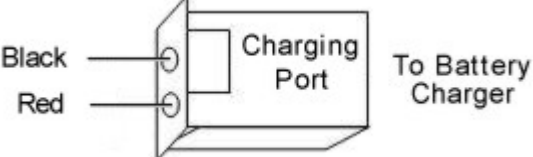
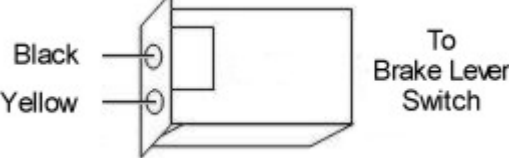
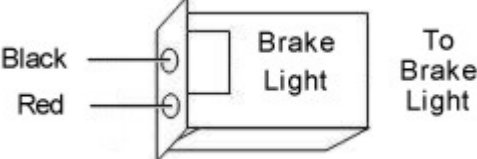
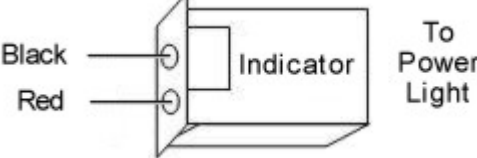


<b>Rated Voltage</b>	<b>24 Volts</b>
<b>Rated For Motors</b>	<b>Up To 350 Watts</b>
<b>Maximum Current</b>	<b>25 Amps</b>
<b>Rated For Chargers</b>	<b>Up To 3 Amps</b>
<b>Conversion Efficiency</b>	<b>95%</b>
<b>Under Voltage Protection</b>	<b>20 Volts <math>\pm</math> 0.5V</b>
<b>Recommended Fuse Size</b>	<b>30 Amps</b>
<b>Dimensions</b>	<b>3-1/4" x 2-9/16" x 1-1/2"</b>

**Under Voltage Battery Protection:** When the battery pack falls below a specific Voltage the controller turns the motor off preventing over discharging of the battery pack which extends the battery packs lifespan. (The cutoff value is 20 Volts  $\pm$  0.5 Volts)

**Motor Cut-Off During Braking:** When the brakes are engaged the brake switch signals the controller to turn off the motor. The motor turns on again after the brakes are released.

<p><b>*Power Connector</b>  Red = Positive  Black = Negative  Mating Connector Item # CNX-50</p>	 <p>Required Connection</p>
<p><b>Motor Connector</b>  Yellow = Positive  Blue = Negative  Mating Connector Item # CNX-50</p>	 <p>Required Connection</p>

<b>Throttle Connector</b> Mating Connector Item # CNX-54	 <p>Required Connection</p>
<b>Key Switch Connector</b> Mating Connector Item # CNX-51	 <p>Required Connection</p>
<b>Battery Charger Connector</b> Red = Positive Black = Negative Mating Connector Item # CNX-51	 <p>~Optional Connection</p>
<b>Brake Lever Switch Connector</b> Mating Connector Item # CNX-51	 <p>~Optional Connection</p>
<b>Brake Light Connector</b> Mating Connector Item # CNX-51	 <p>~Optional Connection</p>
<b>Power Light Connector</b> Mating Connector Item # CNX-51	 <p>~Optional Connection</p>
<p>*The power connector should be the last connection made.  *Fuse or circuit breaker protection is required between speed controller and battery pack.  ~Optional Connections do not need to be hooked up for the speed controller to operate.</p>	

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