

CT-611B9 Controller Product Specifications

TNC Scooters Scooter Sales and Service

The CT-611B9 is a 36 Volt controller suitable for DC motors ≤ 500 Watts.

Table 1-1 shows the properties for the CT-611B9 controller.

| | |
|---------------------------------|--|
| Rated Voltage | 36 Volts |
| Maximum Current | 25 Amps |
| Rated Motor | ≤ 500 Watts |
| Conversion Efficiency | 95 % |
| Static Current | 10mA |
| Under Voltage Protection | 31.5 Volts |
| Speed Control | Available (<i>Turn or Thumb Throttle</i>) |
| Brake Indicator | Available |
| Power Indicator | Available |
| Dimensions | 82 x 76 x 35 mm |

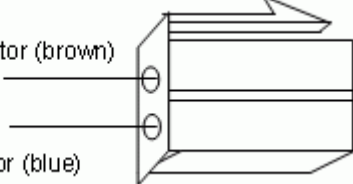
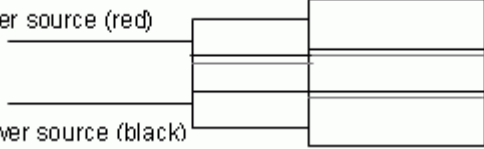
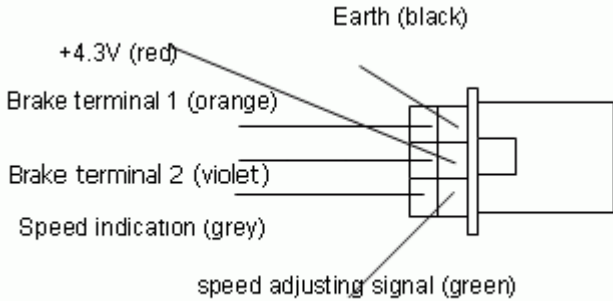
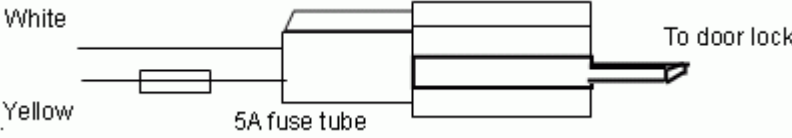
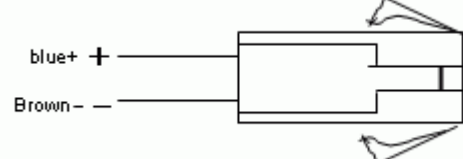
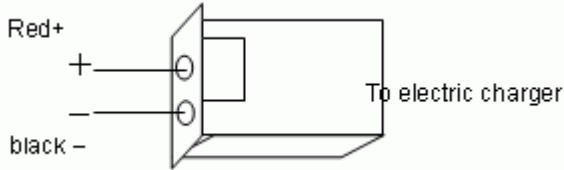
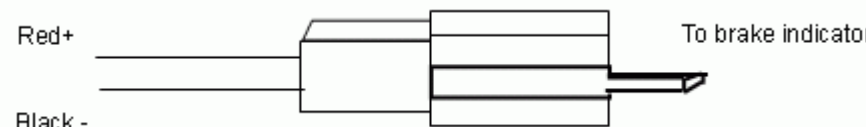
Table 1-1

CT-611B9 Protection Circuits

| | |
|--------------------------------------|--|
| Current Limiting | This prevents the motor current from exceeding the specified value avoiding damage to the motor and the controller due to over-current conditions. |
| Under Voltage Protection | When battery voltage falls to specified value, the controller cuts off battery output preventing over-discharge and extending battery life. (<i>The cutoff value is approximately 31.5 Volts, but varies drastically from controller to controller.</i>) |
| Over Speed Prevention While Charging | When charging, the controller renders the throttle temporarily inoperable, preventing mistaken manipulation. (<i>This function is not available in some applications.</i>) |
| Power Cut Off During Braking | When underway the brake switch signals controller to cut battery output. |

CT-611B9 Controller Product Connections

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| | |
|---|--|
| Motor Connection (Notes: 1, 2) | <p>Negative pole of motor (brown)</p>  <p>Positive pole of motor (blue)</p> |
| Battery Connection | <p>Positive pole of power source (red)</p>  <p>Negative pole of power source (black)</p> |
| Six Wire Connector |  <p>+4.3V (red)</p> <p>Brake terminal 1 (orange)</p> <p>Brake terminal 2 (violet)</p> <p>Speed indication (grey)</p> <p>speed adjusting signal (green)</p> <p>Earth (black)</p> |
| Lock Connection |  <p>White</p> <p>Yellow</p> <p>5A fuse tube</p> <p>To door lock</p> |
| Power Indicator |  <p>blue+ +</p> <p>Brown- -</p> |
| Charger Connection |  <p>Red+ +</p> <p>black -</p> <p>To electric charger</p> |
| Brake Connector |  <p>Red+ +</p> <p>Black -</p> <p>To brake indicator</p> |

NOTES:

1. Make the Battery Connection your last connection.
2. Wire coming from battery should be fuse protected.

Ensure that all connections are tight.