

Wiring Directions for the Pixie-LITE version of the Pixie-14:

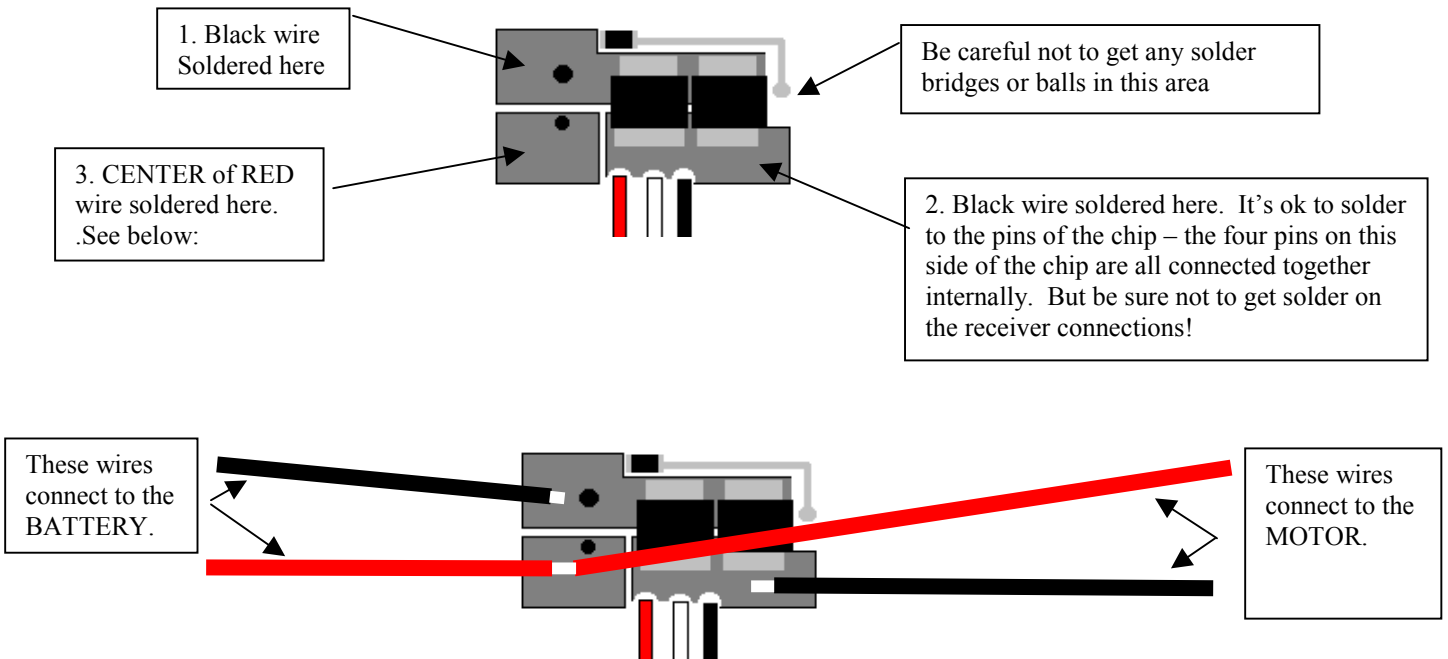
IMPORTANT NOTE: The Pixie-Light has a low voltage cutoff set at approximately 3.5V -- lower than most Castle Creations controls. This is to allow operation with four cells. Make sure you allow for the low voltage cutoff during flight, and ground test your system before flying to ensure proper operation of your receiver and servos at low voltages.

Tools Required:

- Soldering Iron (Small tip, low wattage iron)
- Wire (Black and Red)
- Wire Strippers and cutters

Step by Step directions:

First prepare the wire for attachment to the PC board. Make two (2) black wires of approximately the same length, with about 1/8" of insulation stripped from each end. Make one (1) red wire that is approximately twice the length of one of the black wires. Strip about 1/8" of insulation out of the MIDDLE of the red wire, being careful not to cut any of the conductors in the red wire. Solder the wires to the board, following the wiring diagram (AND WIRING ORDER) below:



After you have finished wiring the Pixie-14, mark the wires for the battery and motor side. A small piece of masking tape on the wire works well. Put the heat shrink provided over the control (make sure your receiver wire exits on the correct side) and carefully shrink it with a heat gun. Use the following table to determine how many amps of current you can run with different wire sizes:

<i>Wire Gauge (AWG)</i>	<i>Max Amps <30 seconds</i>	<i>Max Amps >2 minutes</i>
<i>16 Gauge</i>	<i>20</i>	<i>14</i>
<i>18 Gauge</i>	<i>16</i>	<i>12</i>
<i>20 Gauge</i>	<i>12</i>	<i>9</i>
<i>22 Gauge</i>	<i>9</i>	<i>7</i>
<i>24 Gauge</i>	<i>7</i>	<i>4.5</i>
<i>26 Gauge</i>	<i>3</i>	<i>1.5</i>
<i>28 Gauge</i>	<i>1.5</i>	<i><1</i>
<i>30 Gauge</i>	<i><1</i>	<i><1/2</i>