**Troubleshooting the Energy Bike**

In general, the back cover should be taken off annually to do a general inspection for loose wires (especially if the kit is transported frequently). Take a screwdriver and tighten connections. Sometimes terminal ends may need to be replaced if they weren’t crimped well the first time. Blue and yellow, fork, ring, and quick connects for 14 gauge wire can be bought at most hardware and automotive stores.

1. Voltmeter doesn’t move when you start to pedal:

* Make sure tire is inflated.
* Make sure generator roller is making good contact with tire.

1. Voltmeter moves, but bulbs don’t light when you start to pedal above 12 volts:

* Make sure alligator clips are secure.
* Make sure fuse is not blown. If fuse is blown, they can be bought at most automotive stores.
* Make sure circuit breaker is reset by pushing up on bottom button.
* Make sure toggle switch is flipped to 14 gauge wire and there is a wire between the terminal posts.

1. If individual bulbs aren’t working:

* Switch out bulbs with ones you know are working. If bulbs are blown, they can be bought online at Amazon.com or other site by searching: 12 volt LED, 12 volt CFL, or 12 volt Incandescent. In a pinch, some local stores (Walmart) that sell camping/RV supplies, may sell these bulbs also. NOTE: You must use 12 volt DC bulbs. You can NOT replace bulbs in the Energy Bike with the 120 volt AC bulbs you use in your home.
* If an individual socket is not working, check the connections on the back of the board.

1. If everything seems to work when you first start to pedal, but bulbs start to flicker or not work as you add more load (turning on more bulbs):

* Make sure the tire isn’t slipping as more power is needed. See step 1.

If problems are not resolved or if you have any other questions, contact Trevor Garretson at [tgarretson@ohioenergy.org](mailto:tgarretson@ohioenergy.org) or (740) 202-3130 or the Ohio Energy Project at (614) 785-1717.