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# TROUBLESHOOTING GUIDE

## VSI Error Codes

The VSI controller is equipped with a self diagnostics system that allows the user to identify possible malfunctions. The table below identifies the individual error codes (codes are displayed as a rapid flashing of lights). If you get one of these error codes, contact an authorized Zip'r Provider.

| FLASHING LIGHTS | DIAGNOSTIC SYMPTOM AND SOLUTION   |
|-----------------|---|
| 1               | The batteries need charging or there is a bad connection to the batteries. Check the connections to the batteries. If the connections are good, try charging the batteries. |
| 2               | The left motor has a bad connection. Check the left motor connection.   |
| 3               | The left motor has a short circuit to a battery connection. Contact an authorized Zip'r Provider.   |
| 4               | The right motor has a bad connection. Check the right motor connection.   |
| 5               | The right motor has a short circuit to a battery connection. Contact an authorized Zip'r Provider.  |
| 6               | The Zip'r PC is being inhibited by the battery charger. Unplug the battery charger.   |
| 7               | A joystick fault is indicated. Make sure that the joystick is in the neutral (center) position before turning on the controller.  |
| 8               | A controller system fault is indicated. Contact an authorized Zip'r Provider.   |
| 9               | The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the controller connections are secure.                                   |
| 10              | An excessive voltage has been applied to the controller. This is usually caused by a poor battery connection. Check the battery connections.                                |

## Thermal Rollback

The VSI controller is equipped with a thermal rollback circuit. In the event that the VSI controller becomes excessively hot (above 140 degrees F), motor current is reduced. This will reduce your Zip'r PC's "power," which could also reduce your Zip'r PC's speed. Once the VSI controller reaches 158 degrees F, the current output is reduced to zero and your Zip'r PC will stop. This allows all of the components to cool down. When the temperature returns to a safe level, your Zip'r PC will resume its normal operations.