

CEENBOT Troubleshooting Guide

Problem:

The Attn. LED is ON when I'm using my CEENBoT.

Solution:

This is the low battery warning. The battery voltage has dropped below 6.60V and will soon need charging.

Problem:

My CEENBoT was running then turned OFF and emitted six short beeps.

Solution:

The battery is below 6.00V. Attach CEENBoT to the charger.

Problem:

When I try to turn my CEENBoT ON it beeps six times then does nothing.

Solution:

The battery is below 6.00V. Attach CEENBoT to the charger.

Problem:

When I try to turn my CEENBoT ON nothing happens.

Solution:

- 1) The fuse may be blown. Test the fuse, if blown check the CEENBoT over for possible short circuits before replacing.
 - Make sure that the Optical Sensor leads are not shorted to the bumper
- 2) The battery voltage may be too low. Attach charger, if nothing happens when the charger is attached: remove the battery and connect it directly to the charger for 10 minutes then replace the battery and connect the charger to the CEENBoT.

Problem:

When I drive my CEENBoT the left Led on the control board turns red and it beeps six times then shuts off. When I turn it back ON there are no low battery warnings and the battery voltage is above 7.20V.

Solution:

The battery is low and needs to be charged. When the motors are running the battery voltage drops below 5.00V then it quickly bounces above 7.20V when there is a small load.

Problem:

The battery is dead but when I attach the charger nothing happens.

Solution:

If nothing happens when the charger is attached: remove the battery and connect it directly to the charger for 10 minutes then reconnect the battery to the CEENBoT and connect the charger to the CEENBoT. This occurred because the battery was below 3.00V.

Problem:

When I attach the charger to the CEENBoT the left led turns red and it emits 1 long beep then shuts OFF.

Solution:

The charger voltage is less than 12.00V. Replace the charger

Problem:

The left led blinks red while a short tone is emitted 100 times in a row then the CEENBoT shuts OFF.

Solution:

The battery voltage is above 9.60V. If in On with Power mode remove charger, otherwise check the system for something that would cause this to happen.

Problem:

When I try to drive my CEENBoT the LED's on the control board change color but the motors do not move.

Solution:

The motors are not connected to the control board or there are poor solder connections on the control board. Plug in the motors or re-solder the connections.

Problem:

When I drive my CEENBoT the LED's on the control board change but the motors just shake or move erratically.

Solution:

The motors are not connected correctly or there is a loose solder connection on the control board. Check that the motors are wired correctly and/or go over your solder connections.

Replacement Fuses can be found at the link below.

<http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail?name=507-1182-ND>