

Dirodi Electrical Quick Guide

This quick guide is designed for the new Dirodi owner, providing a simple, no-tools-required approach to resolving the most common electrical issues. By focusing on cleaning, reseating, and securing connections, you can often fix problems at home and get back on the road quickly.

Common Electrical Issues and Easy Fixes



1. Display Won't Turn On

Symptom: The display remains blank when attempting to power on the bike.

Most Likely Cause: Loose battery lock, a blown fuse, or a dirty/poorly seated 11-pin cable connection.

Easy Fix (No Tools): ****Remove the battery****, inspect the contacts for debris, ****clean the contacts**** with a dry cloth, and ****reseat and lock the battery firmly****. Check the 11-pin cable connector (usually near the handlebars) and ensure it is fully plugged in.



2. Bike Shuts Off Mid-Ride

Symptom: The bike suddenly loses power while riding.

Most Likely Cause: Vibration has caused a loose or intermittent connection, most commonly at the 11-pin multi-cable or the battery base.

Easy Fix (No Tools): ****Stop safely****, ****unplug**** the 11-pin multi-cable connector, ****inspect and clean**** the pins, and ****reconnect it**

firmly**. Repeat this process for the battery base connection (after removing the battery).



3. Error 1 - Undercurrent

Symptom: The display shows "Error 1" and power cuts out.

Most Likely Cause: A momentary voltage drop or surge, often due to a loose connection under high load (e.g., accelerating or climbing a hill).

Easy Fix (No Tools): **Secure the battery** to ensure it is locked tightly. Visually **inspect all visible connectors** for any signs of burn marks or melting, which would indicate a serious connection issue requiring professional service.



4. Error 6 - Undervoltage

Symptom: The display shows "Error 6" and the motor stops assisting.

Most Likely Cause: The battery voltage has dropped below the safe operating threshold, indicating a low state of charge.

Easy Fix (No Tools): **Fully charge the battery**. To prevent this error, **avoid climbing steep hills** or using high assist levels when the battery indicator is low.



5. Error 9 - Communication Failure

Symptom: The display shows "Error 9" and the system is unresponsive.

Most Likely Cause: The display or a motor sensor (Hall sensor) is not communicating with the controller, usually due to a loose or damaged cable.

Easy Fix (No Tools): **Unplug and replug** the main display connector and the motor cable connector. **Carefully check the pins** inside the connectors to ensure none are bent or pushed back.



6. Error 5 - Brake Sensor Active

Symptom: The display shows "Error 5" and the motor will not engage, as if the brakes are being held.

Most Likely Cause: The magnetic brake sensor is stuck in the 'active' position, often due to dirt or misalignment.

Easy Fix (No Tools): **Clean the brake lever area** where the magnet and sensor are located. **Realign the magnet and sensor** to a gap of **1–2 mm**.



7. PAS Not Engaging

Symptom: Pedaling does not activate the motor assist.

Most Likely Cause: The Pedal Assist Sensor (PAS) ring is dirty, misaligned, or the connector is loose.

Easy Fix (No Tools): **Clean the magnets** on the PAS ring (located near the crank). **Align the sensor** to be less than **3 mm** from the magnet ring. Check and reseal the PAS cable connector.



8. Throttle Dead

Symptom: The throttle does not provide power, but PAS works.

Most Likely Cause: A damaged signal wire or a loose connection in the throttle cable.

Easy Fix (No Tools): **Unplug the throttle connector**, **clean the pins**, and **reconnect it gently but firmly**. Test the throttle. If the issue persists, the throttle unit may need replacement.



9. Lights Flicker

Symptom: The integrated lights flash or flicker intermittently.

Most Likely Cause: Moisture ingress in the green 5-pin light cable connector.

Easy Fix (No Tools): **Unplug the green 5-pin light connector**, **dry and clean** the inside of the connector (you can use a tissue or simply air dry), and **reconnect it firmly**.



10. Motor Cuts Out on Bumps

Symptom: The motor briefly cuts power when riding over rough terrain or bumps.

Most Likely Cause: A loose connection in the main multi-cable (loom cable) or the motor cable itself.

Easy Fix (No Tools): **Trace the main cables** from the controller to the motor and display. **Secure all connections firmly** by pushing them together until they click or are fully seated.



11. Speed Not Showing

Symptom: The display is on, but the speed reads zero or is erratic.

Most Likely Cause: A fault in the motor's Hall sensor or bent pins in the display cable connector.

Easy Fix (No Tools): **Clean and reseal the display cable connector** at the handlebars. If the issue persists, the Hall sensor inside the motor may be damaged, requiring professional service.



12. After Rain Bike Shuts Off

Symptom: The bike powers off or develops faults after being ridden in the rain or washed.

Most Likely Cause: Moisture has entered the controller unit or a main connector.

Easy Fix (No Tools): ****Do not attempt to power on the bike**.** Bring the bike indoors to a dry, warm place and allow it to ****dry fully for a minimum of 24 hours**** before attempting to use it again.

Always remove the battery before touching any connector. Most issues can be fixed at home with cleaning and reconnection.