



CUSTOM CIRCUIT RoboLawn Cable Breakage Detector User Manual

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CUSTOM CIRCUIT RoboLawn Cable Breakage Detector



RoboLawn Cable Breakage Detector

Specifications

- Compact computerised device
- Assesses cable connections
- Identifies and isolates damaged or faulty cables
- Powered by two AA batteries

Product Usage Instructions

Important Precautions

Before using the RoboLawn Cable Breakage Detector, ensure to follow these precautions:

1. Turn off the charging station.
2. Unplug all boundary and guide cables to prevent damage to the device.

How the Tester Works

The RoboLawn Cable Breakage Detector systematically assesses cable connections to identify damaged or faulty cables within the system.

How to Use the Tester

- **Step 1: Starting the Tester**
 - Press the ON/OFF button to start the tester. The LEDs will light up.
 - If all red LEDs are blinking, replace the batteries. Refer to the battery section for instructions.
- **Step 2: Connecting Boundary and Guide Cables**
 - Connect Boundary Cables (B1 and B2) to their respective ports for defining the mowing area.
 - Connect Guide Cables (G1, G2, G3) in sequential order if needed.

How to Interpret LEDs

The LEDs indicate cable status:

- **Green Light:** Healthy cable
- **Red Light:** Cable issues
- **Blinking Green:** Problem between two guides

Sleep Mode

The device enters sleep mode after three minutes of inactivity. It wakes up on cable state changes or by toggling the power.

Battery Warning

If all LEDs (except PWR) are blinking red, replace the batteries following the instructions provided in the manual.

FAQ

- **How do I know if my cables are intact?**

The LEDs will indicate cable status – green for healthy cables, red for issues, and blinking green for problems between guides.

- **What should I do if all red LEDs are blinking?**

Replace the batteries following the instructions in the manual to ensure proper functionality of the tester.

- **How do I contact customer support for feedback or assistance?**

Contact us at k337364@gmail.com for any feedback or further assistance.

Important Precautions

Before beginning, it is crucial to follow these steps to ensure the safe and proper use of the RoboLawn Cable Breakage Detector.

- **Step 1:** Turn Off the Charging Station
- **Step 2:** Unplug All Boundary and Guide Cables

Caution: Failure to follow these steps can result in damage to the charging station and/or the RoboLawn tester!

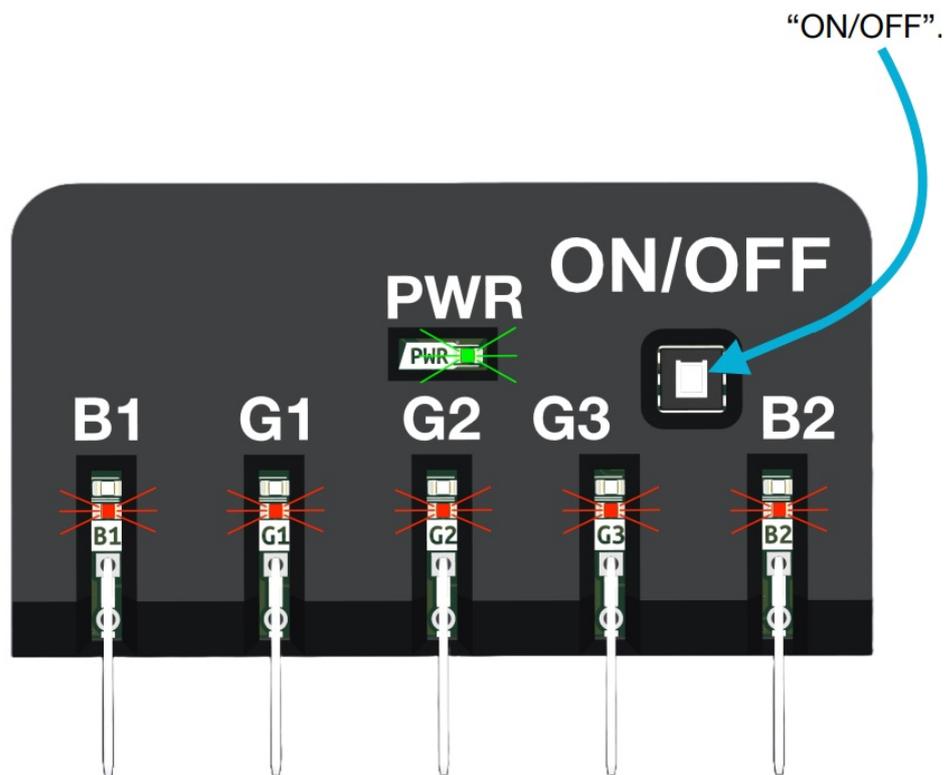
How to the tester works

The RoboLawn Cable Breakage Detector operates as a compact computerised device. It systematically assesses every conceivable combination of cable connections, enabling it to accurately identify and isolate any damaged or faulty cables within the system.

How to Use the tester

- **Step 1: Starting the Tester**

- To start the tester simply press in the button under the text "ON/OFF". By doing so the tester should light up as indicated below.
- If all red LEDs are blinking then the battery is low and needs to be replaced, see battery section further down.



- **Step 2: Connecting Boundary and Guide Cables**

- **Boundary Cables (B1 and B2):** Connect the boundary cables to the B1 and B2 ports respectively. These cables are essential for defining the mowing area and its very important that these are connected properly to the tester!
- **Guide Cables (G1, G2, G3):** If your robotic lawnmower uses guide cables, connect them in sequential order, starting with G1, followed by G2, and G3. If your mower doesn't have three guide cables or any at all, simply leave the unneeded ports unconnected.

How to Interpret LEDs

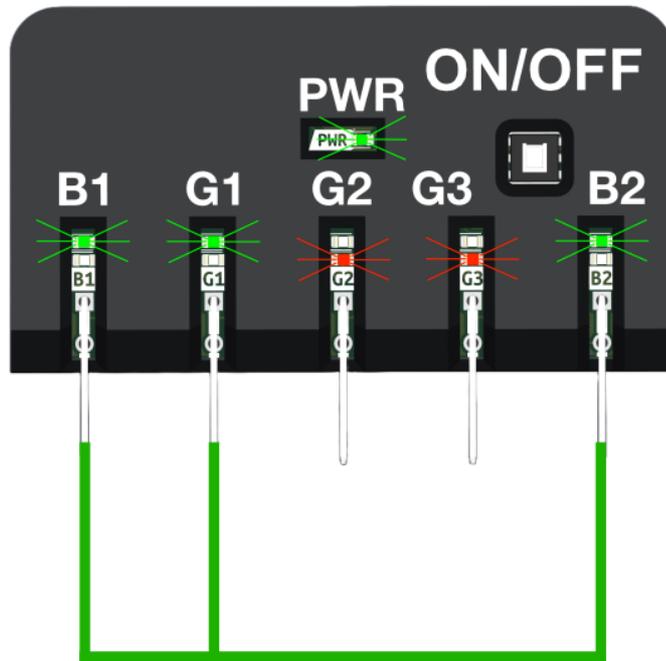
While identifying intact cables is generally straightforward, I have provided two installation examples with scenarios to enhance clarity.

Remember, the primary indicator is simple:

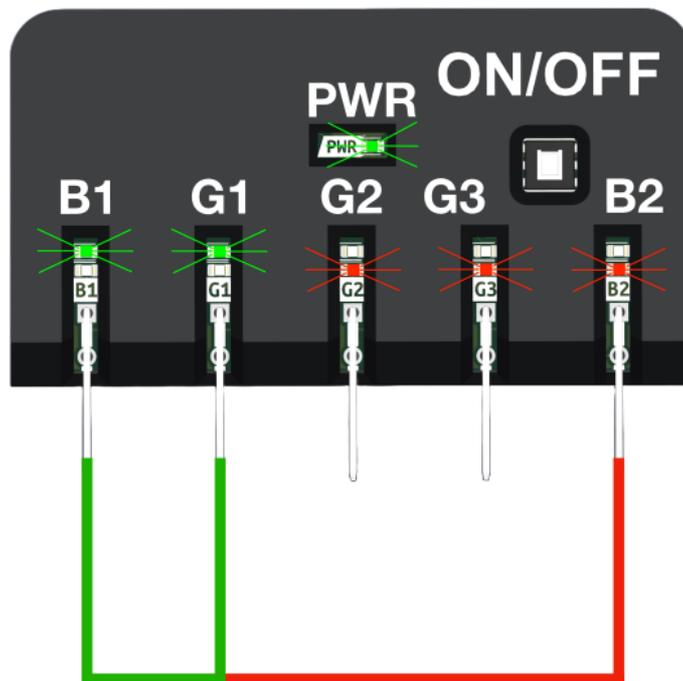
- **Green Light:** Indicates a healthy cable.
- **Red Light:** Signals cable issues.
- **Blinking Green:** Problem in-between two guides.

Example 1: Robotic lawnmower with 1 guide

- In this scenario all cables are whole

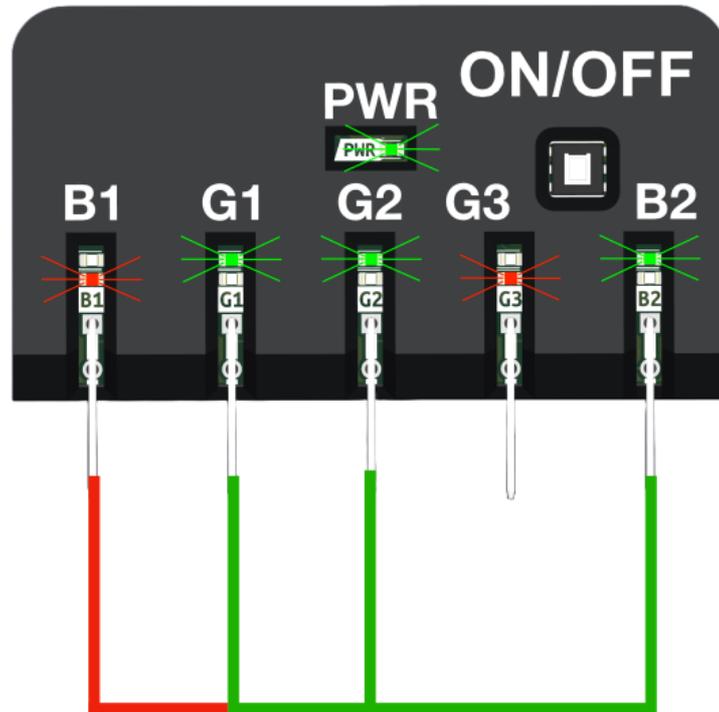


- In this scenario B1 and G1 are whole, but B2 has a problem. So somewhere between G1 and B2 there is something wrong.

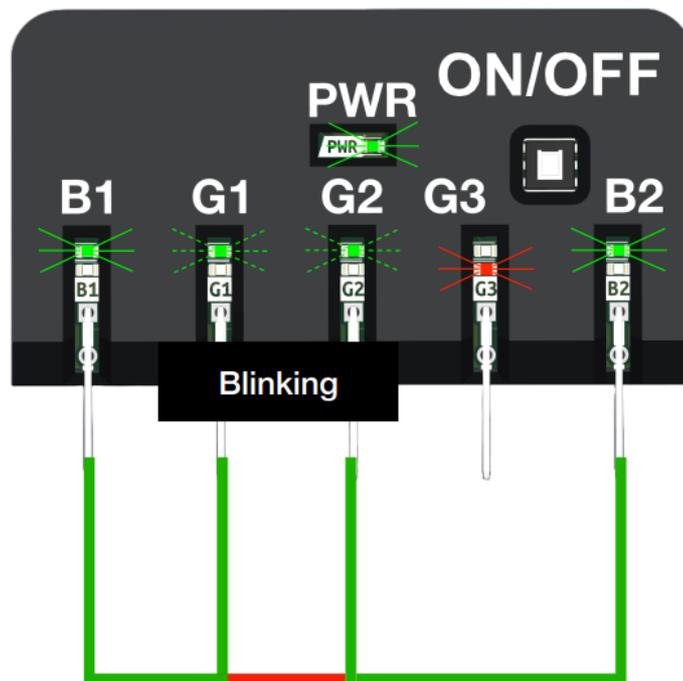


Example 2: Robotic lawnmower with 2 guides

- In this scenario G1, G2 and B2 are whole, but B1 has a problem.

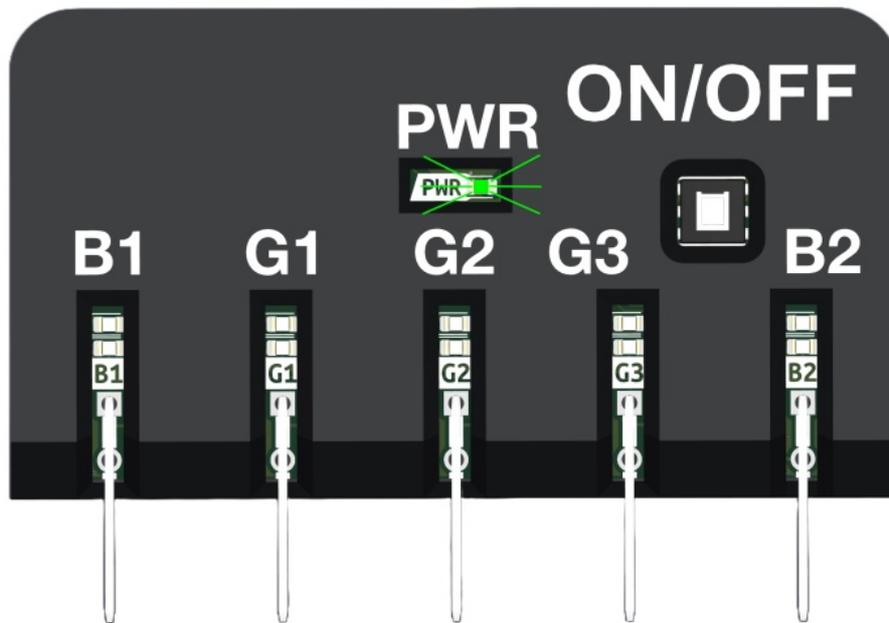


- In this scenario B1, B2, G1 and G2 are whole. However, G1 and G3 are blinking green. This means the problem is in-between G1 and G3.



Sleep mode

When all LEDs, except the power indicator (PWR), turn off, it signifies the tester's battery-saving sleep mode, which activates after three minutes of inactivity and automatically wakes up on cable state changes. Alternatively you can wake by toggling the power.



Battery warning

If all LEDs (except PWR) are blinking red, that means the testers batteries needs to be replaced. To replace them, you need to unscrew two Phillips head screws. Then you simply slide out the lid and replace the two AA batteries. Be careful with the polarity!



