

## Tiiyee Tiiyeetnq613fadz

# Tiiyee 12V LED Trailer Brake Breakaway Kit

Model: Tiiyeetnq613fadz

## INTRODUCTION

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The Tiiyee 12V LED Trailer Brake Breakaway Kit is an essential safety device designed to automatically activate your trailer's electric brakes if it accidentally separates from the towing vehicle. This mechanism ensures the trailer comes to a controlled stop, significantly reducing the risk of accidents and enhancing overall road safety. The kit includes an integrated LED indicator for convenient monitoring of the battery status.

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Tiiyee Trailer Brake Breakaway Kit. Please read it thoroughly before use to ensure safe and effective operation.

## SAFETY INFORMATION

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- **Battery Condition:** The condition of the battery used with this kit must be maintained, checked, and sufficiently charged prior to every trip. A discharged battery will prevent the system from functioning correctly.
- **Professional Installation:** If you are unsure about any installation steps, it is recommended to seek assistance from a qualified technician.
- **Wiring Integrity:** Regularly inspect all wiring and connections for signs of wear, corrosion, or damage. Replace any compromised components immediately.
- **Compatibility:** This kit is designed for universal fit on 12V vehicles. Ensure your trailer and towing vehicle are compatible with a 12V electrical system.
- **Brake System Check:** Always perform a functional test of the breakaway system and trailer brakes before each journey.

## PACKAGE CONTENTS

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Verify that all items are present and undamaged upon opening the package:

- 1 x Tiiyee Trailer Brake Breakaway Kit Unit
- 1 x Adapter Cable

**Note:** A 12V battery is required for operation and is not included in this kit.

## SETUP AND INSTALLATION

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The Tiiyee Trailer Brake Breakaway Kit is designed for straightforward installation. Follow these steps carefully:

1. **Mounting the Unit:** Securely mount the breakaway kit unit to the trailer frame in a location that is protected from road debris and weather, yet accessible for testing.
2. **Battery Connection:** Connect a 12V trailer battery (not included) to the breakaway kit. The kit's built-in charger will charge this battery when the trailer is connected to the towing vehicle.
3. **Wiring Connections:** Connect the breakaway kit to your trailer's electrical system and the towing vehicle using the provided adapter cable and following the wire color codes:
  - **White:** Ground
  - **Blue:** Brakes (connect to the trailer's electric brake circuit)
  - **Black:** Battery (connect to the 12V trailer battery)
4. **Breakaway Switch Placement:** Install the breakaway switch in a location where its cable will pull free if the trailer separates from the towing vehicle, but will not accidentally activate during normal turns or bumps. The cable should be attached to the towing vehicle's frame, not the hitch.

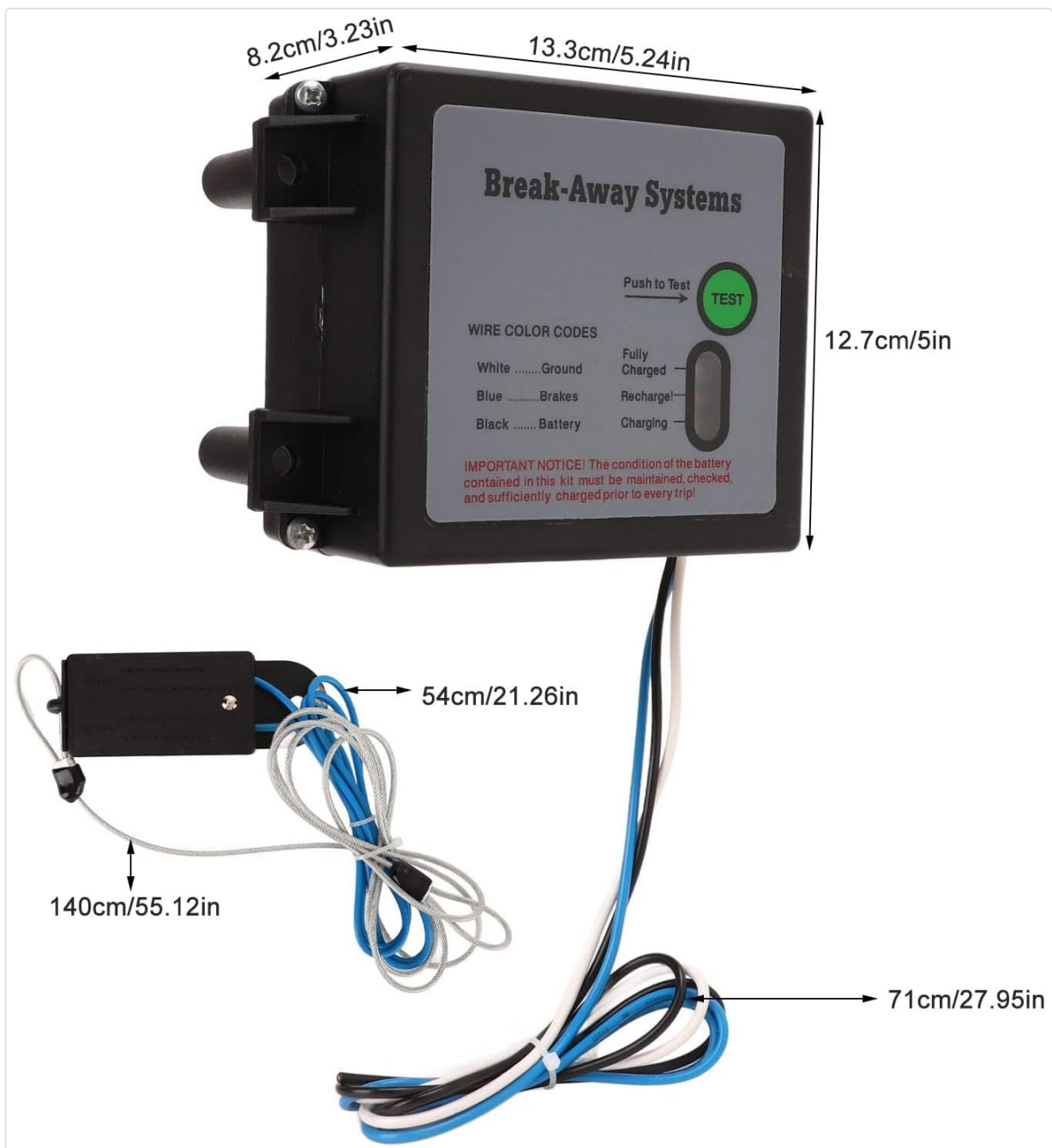


Image: Overview of the Tiiyee Trailer Brake Breakaway Kit with key dimensions shown in centimeters and inches.



Image: The Tiiyee Breakaway Kit unit connected to its breakaway switch, illustrating the components for installation.



Image: Example of the Tiiyee Breakaway Kit installed on a trailer tongue, showing its connection to the trailer's electrical system.

## OPERATING INSTRUCTIONS

The Tiiyee Trailer Brake Breakaway Kit operates automatically in an emergency. However, regular testing and monitoring are crucial.

1. **Battery Charging:** When the trailer is connected to the towing vehicle, the built-in charger within the breakaway kit will automatically charge the connected 12V battery.
2. **LED Indicator Status:** The unit features an LED indicator to display the battery's charge status:
  - **Charging:** Indicates the battery is currently being charged.
  - **Recharge!:** Indicates the battery charge is low and requires recharging.
  - **Fully Charged:** Indicates the battery has reached full charge.
3. **Testing the System:** To test the breakaway system, press the "TEST" button on the unit. This simulates a breakaway event and should activate the trailer brakes. Observe the LED indicators for battery status during the test.

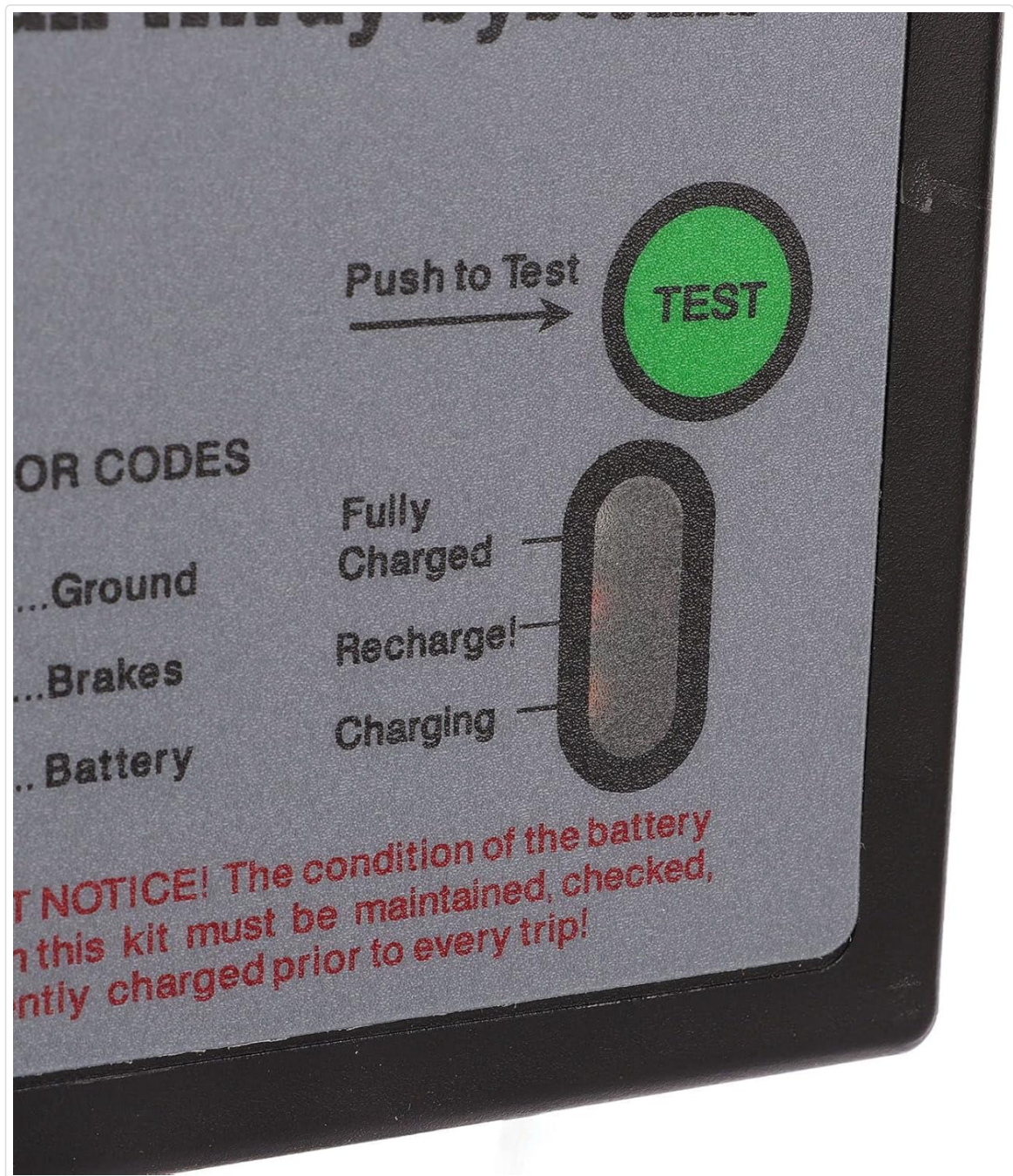


Image: Close-up view of the LED indicators (Charging, Recharge!, Fully Charged) and the 'Push to Test' button on the Tiiyee Breakaway Kit.

4. **Emergency Activation:** In the event of an accidental trailer separation, the breakaway switch cable will pull free, activating the switch. This directs power from the 12V trailer battery to the trailer's electric brakes, bringing the trailer to a stop.

## MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Tiiyee Trailer Brake Breakaway Kit.

- **Battery Check:** Always ensure the 12V trailer battery is fully charged before each trip. The LED indicator will help monitor this.
- **Visual Inspection:** Periodically inspect the breakaway kit unit, wiring, and breakaway switch for any physical damage, corrosion, or loose connections.
- **Cleanliness:** Keep the unit clean and free from dirt, moisture, and debris. Use a dry cloth for cleaning.

- **Storage:** If the trailer is stored for an extended period, ensure the battery is fully charged and consider disconnecting it to prevent discharge.

## TROUBLESHOOTING

If you encounter issues with your Tiiyee Trailer Brake Breakaway Kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
LED indicator shows "Recharge!" or is off.	Low or discharged 12V battery; poor battery connection.	Ensure trailer is connected to towing vehicle for charging. Check battery terminals for corrosion and secure connection. If battery is old, consider replacement.
Brakes do not activate when "TEST" button is pressed.	Disconnected or faulty wiring; discharged battery; faulty brake system.	Verify all wiring connections (White, Blue, Black) are secure. Ensure the 12V battery is fully charged. Inspect trailer's electric brake system for faults.
Breakaway switch cable pulls out too easily or not at all.	Improper breakaway switch mounting or cable length.	Adjust the mounting position of the breakaway switch and the length of its cable to ensure it pulls only during a true separation.
Unit not charging the 12V battery.	No power from towing vehicle; faulty charging circuit.	Check the electrical connection between the towing vehicle and the trailer. Ensure the towing vehicle's charging circuit is functional.

## SPECIFICATIONS

- **Brand:** Tiiyee
- **Model:** Tiiyeetnq613fadz
- **Material:** Premium PP (Polypropylene)
- **Compatibility:** Universal for 12V vehicles
- **Dimensions (L x W x H):** 18 x 14 x 11 cm (approximately 7.09 x 5.51 x 4.33 inches)
- **Weight:** 550 g (approximately 1.21 lbs)
- **Function:** Activates trailer brakes upon separation from towing vehicle.
- **Features:** Integrated LED battery status indicator, built-in battery charger.

## SUPPORT

For further assistance or technical support, please contact Tiiyee customer service. Refer to your product packaging or the retailer's website for contact information.

