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› [SAN HIMA](#) /

› [SanHima Trailer Brakes Breakaway Kit User Manual](#)

SAN HIMA SH-VABS001A

SanHima Trailer Brakes Breakaway Kit User Manual

Model: SH-VABS001A | Brand: SAN HIMA

PRODUCT OVERVIEW

The SanHima Trailer Brakes Breakaway Kit is designed to enhance safety for trailers, caravans, and towable RVs equipped with electric brakes. This system automatically activates the trailer brakes in the event of an accidental separation from the tow vehicle, ensuring a swift and reliable response during emergencies. It includes a 12V 5Ah battery with a built-in charger and LED indicators for convenient battery status monitoring.



Figure 1: Complete SanHima Trailer Brakes Breakaway Kit components.

WHAT'S IN THE BOX

- 1 x Break Away System with Built-in Battery
- 1 x Breakaway Switch with Pin
- 1 x User Manual (this document)

INSTALLATION

Mounting the Breakaway Box and Switch

The breakaway system's battery box and switch can be easily installed using screws or rivets. It is recommended to mount the unit on the trailer frame for convenience and stability. The rugged heavy-duty PP case provides protection from moisture and debris, but for prolonged durability, consider mounting it in a location that offers additional shelter from direct exposure to extreme weather conditions.



Figure 2: Examples of breakaway system mounting locations on a trailer.

Wiring Instructions

The system comes with pre-wired, color-coded cables for straightforward connection:

- **White:** Ground
- **Blue:** Brakes
- **Black:** Battery (12V input from tow vehicle or house battery for charging)

Refer to the wiring diagram below for proper connection to your trailer's electrical system. Ensure all connections are secure and insulated to prevent short circuits.

Wiring Diagram

WIRING DIAGRAM WITH CHARGER DIAGRAMA CON EL CARGADOR DIAGRAMME AVEC CHARGEUR

● Splices | Empalmes | Épissures

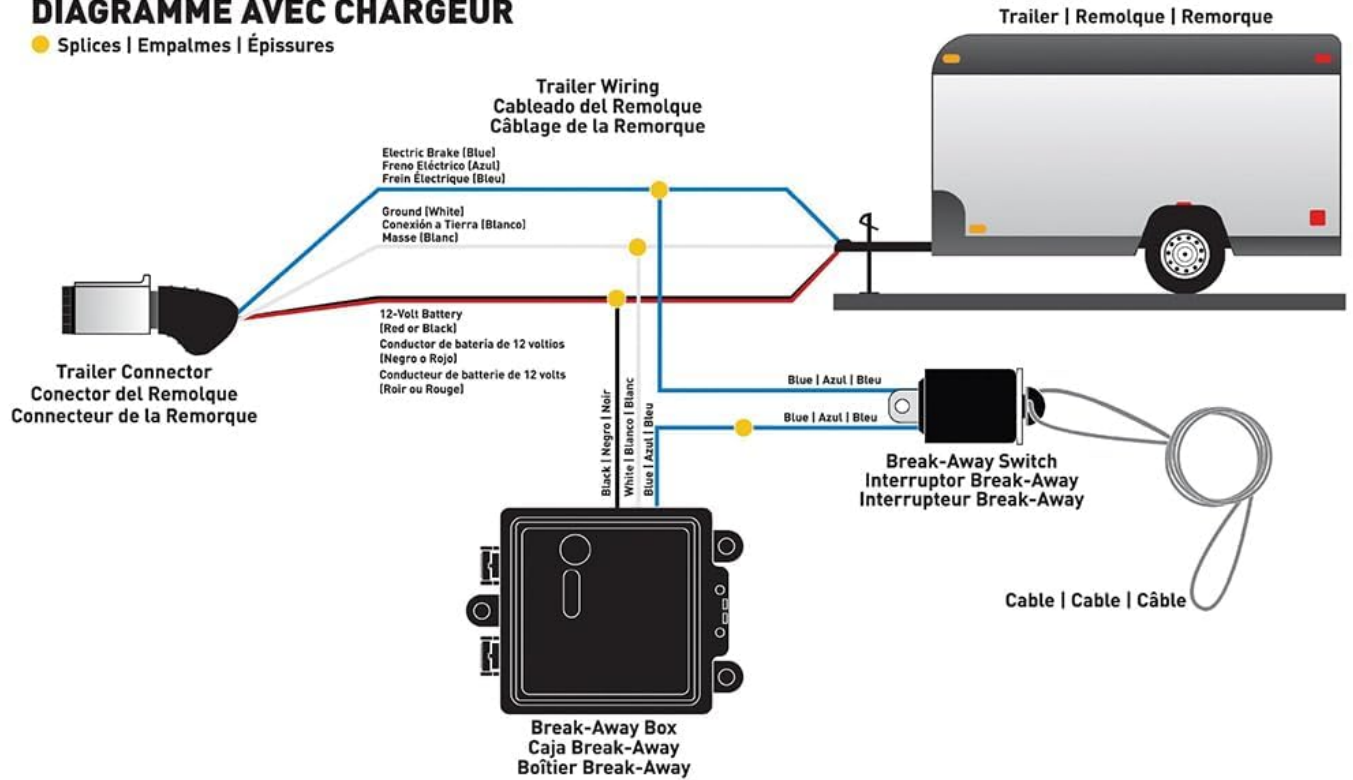


Figure 3: Wiring Diagram for the SanHima Breakaway System.

Breakaway Switch Cable Installation

Connect the breakaway switch cable to your tow vehicle. The cable should be long enough to allow for turns but short enough to pull the pin and activate the brakes if the trailer separates from the vehicle. Attach the cable securely to a non-removable part of the tow vehicle, such as a bumper clevis or safety chain pocket, ensuring it will pull the pin from the switch if the trailer detaches.

Installation

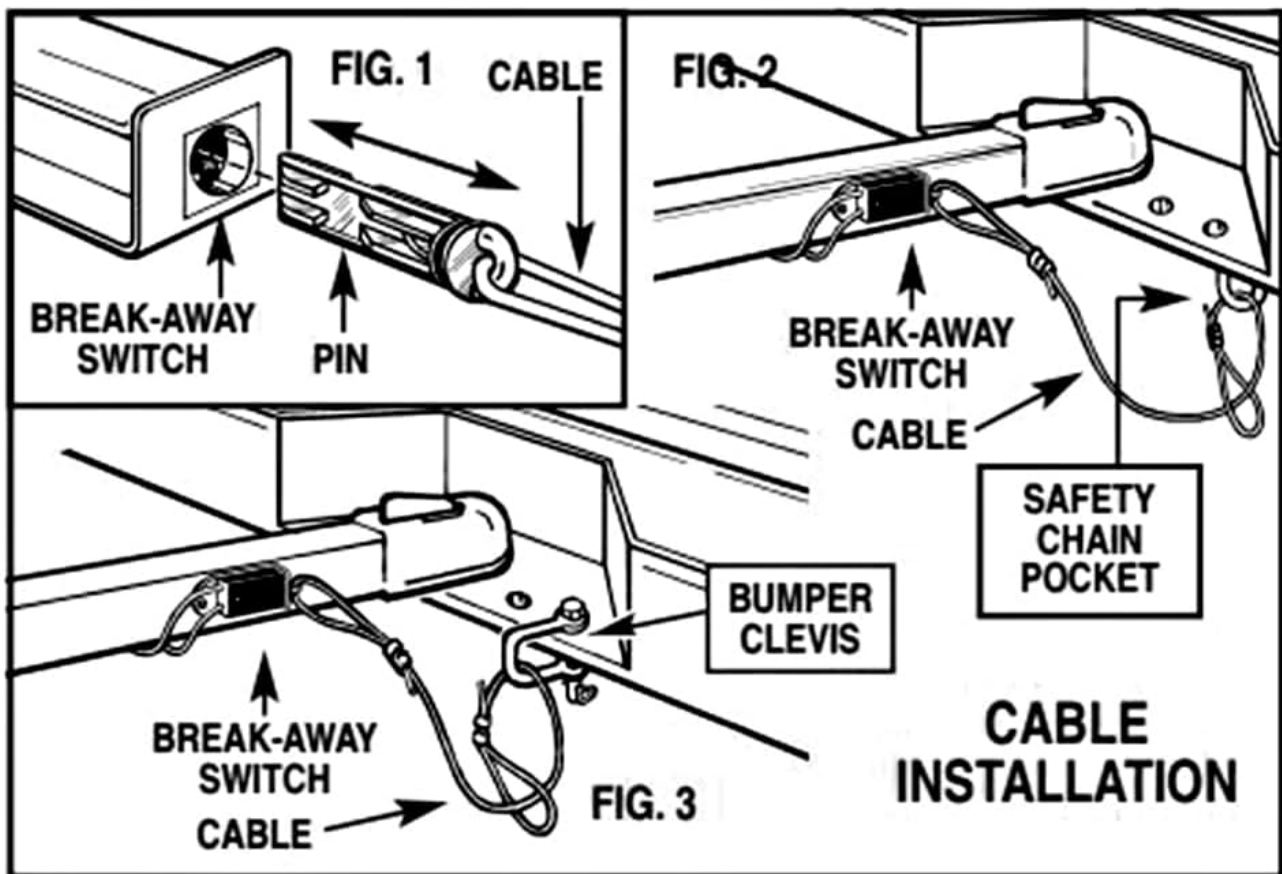


Figure 4: Breakaway switch cable installation.

OPERATION

Automatic Brake Activation

In the event of an accidental trailer breakaway, the breakaway switch pin will be pulled, automatically activating the trailer's electric brakes. This ensures the trailer comes to a safe stop, preventing potential accidents.

Quick Work



Activates trailer brakes upon separation from the tow vehicle, quick and easy to install breakaway 7inch switch.



Figure 5: Breakaway switch mechanism.

Battery Charging and Testing

The built-in 12V 5Ah battery can be charged from your tow vehicle's electrical system or the house battery of your trailer when connected. It is crucial to check the battery charge before each towing journey to ensure the system is ready for use.

The unit features a "TEST" button and LED indicators to quickly assess the battery's charge level:

- **Green LED:** Fully Charged
- **Yellow LED:** Recharged (sufficient charge)
- **Red LED:** Charging (low charge)



LED Indicator



Figure 6: LED indicators for battery status.

Push To Test

Built-in LED battery meter verifies battery charge



Figure 7: Pressing the 'TEST' button to check battery charge.

MAINTENANCE

Regular maintenance ensures the longevity and reliability of your SanHima Breakaway Kit:

- **Battery Check:** Always verify the battery charge level using the "TEST" button before each trip. A fully charged battery is essential for proper operation.
- **Environmental Protection:** While the unit features a robust PP case, it is not fully waterproof. If mounted in an exposed area, consider adding additional protection from direct water exposure to prolong its lifespan.
- **Unit Replacement:** For optimal safety and performance, it is recommended to replace the entire breakaway unit, including the battery and switch, every 3-5 years, or if any signs of wear, damage, or reduced performance are observed.

TROUBLESHOOTING

- **No LED Indication when pressing TEST:**
 - Check all wiring connections (White: Ground, Black: Battery) for looseness or corrosion.
 - Ensure the tow vehicle or house battery is providing 12V power to the black wire for charging.
 - The internal battery may be completely discharged or at the end of its lifespan. Allow time for charging or consider replacing the unit.
- **Brakes do not activate upon pin pull:**

- Verify the blue wire connection to the trailer brakes is secure.
- Check the battery charge level using the TEST button. A low or dead battery will prevent brake activation.
- Inspect the breakaway switch and pin for any physical damage or obstruction.

SPECIFICATIONS

Feature	Detail
Brand	SAN HIMA
Model Number	SH-VABS001A
Battery Type	12V 5Ah (Built-in)
Application	1 or 2 axle trailers with electric brakes
Case Material	PP (Polypropylene)
Item Weight	3.89 pounds
Package Dimensions	8.9 x 6.18 x 4.41 inches
Country of Origin	China

Product Dimensions















Figure 8: Product Dimensions.

WARRANTY INFORMATION

This SanHima Trailer Brakes Breakaway Kit comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, please refer to the official SAN HIMA website or contact customer support.

CUSTOMER SUPPORT

For any questions, technical assistance, or support regarding your SanHima Trailer Brakes Breakaway Kit, please visit the official SAN HIMA website or contact their customer service department. Contact information can typically be found on the product packaging or the brand's official online presence.

  <p>UTE CANOPY USER MANUAL</p> <p><small>Please read this manual carefully before use, and refer to the future reference.</small></p> <p><small>V1.0</small></p>	<p>San Hima Ute Canopy User Manual - Installation and Care Guide</p> <p>Comprehensive user manual for the San Hima Ute Canopy. Includes safety guidelines, maintenance tips, parts list, assembly instructions, mounting procedures, and warranty details for models like SH-RG-CANOPY and others.</p>
  <p>GAS HOT WATER SYSTEM USER MANUAL</p> <p><small>○ SH-WGH-BUM-A ● SH-WGH-BUM-BLX</small></p> <p><small>V1.2</small></p>	<p>SAN HIMA SH-WGH-BUM-A Outdoor Gas Water Heater User Manual</p> <p>Comprehensive user manual for the SAN HIMA SH-WGH-BUM-A outdoor tankless gas water heater. This guide provides detailed information on installation, operation, safety precautions, maintenance, and troubleshooting for RVs, camping, and caravan use.</p>
  <p>ROOFTOP TENT USER MANUAL</p> <p><small>SH-TENT-GRAY-AHT125</small></p> <p><small>Please read this manual carefully before use, and refer to the future reference.</small></p> <p><small>V1.0</small></p>	<p>San Hima Rooftop Tent User Manual - SH-TENT-GRAY-AHT125</p> <p>Comprehensive user manual for the San Hima SH-TENT-GRAY-AHT125 rooftop tent, covering installation, operation, care, maintenance, and warranty information.</p>
  <p>KALBARRI LITE ROOFTOP TENT USER MANUAL</p> <p><small>SH-RTT-T</small></p> <p><small>Please read this manual carefully before use, and refer to the future reference.</small></p> <p><small>V1.0</small></p>	<p>San Hima Kalbarri Lite Rooftop Tent User Manual</p> <p>User manual for the San Hima Kalbarri Lite Rooftop Tent (Model: SH-RTT-T), including important information, warnings, safety instructions, parts list, operating instructions, care and maintenance, storage, and warranty details.</p>
  <p>ROOFTOP TENT USER MANUAL</p> <p><small>SH-TENT-QD-RT01</small></p> <p><small>Please read this manual carefully before use, and refer to the future reference.</small></p> <p><small>V1.2</small></p>	<p>San Hima Rooftop Tent User Manual SH-TENT-QD-RT01</p> <p>Comprehensive user manual for the San Hima SH-TENT-QD-RT01 rooftop tent, covering installation, operation, care, maintenance, and warranty information.</p>
  <p>ROOFTOP TENT USER MANUAL</p> <p><small>SH-TENT-QD-008</small></p> <p><small>Please read this manual carefully before use, and refer to the future reference.</small></p> <p><small>V1.0</small></p>	<p>San Hima SH-TENT-QD-008 Rooftop Tent User Manual: Installation & Care Guide</p> <p>Comprehensive user manual for the San Hima SH-TENT-QD-008 rooftop tent. Covers installation, operation, safety, care, maintenance, storage, and warranty information for this outdoor camping accessory.</p>