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EVTSCAN HT-608

User Manual: EVTSCAN HT-608 Circuit Breaker

Automatic Reset Fuse Holder, Waterproof, DC12-24V

1. INTRODUCTION

Thank you for choosing the EVTSCAN HT-608 Circuit Breaker. This device is designed to provide reliable overcurrent protection for various DC electrical systems, particularly in automotive, marine, and other low-voltage applications. Its automatic reset feature ensures continuous operation after a fault condition is cleared, while its waterproof and ignition-protected design offers enhanced safety and durability in demanding environments. This manual provides essential information for the safe and effective installation, operation, and maintenance of your HT-608 Circuit Breaker. Please read it thoroughly before use and retain it for future reference.

2. IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury or damage to the product and connected equipment:

- **Disconnect Power:** Before installing or servicing the circuit breaker, always disconnect all power sources to the circuit. Failure to do so can result in electric shock or fire.
- **Proper Voltage and Current:** Ensure the circuit breaker's voltage and current ratings match your application's requirements. Do not exceed the specified DC12-24V voltage range or the 60A current rating.
- **Correct Wiring:** Use appropriate wire gauges for the current load and ensure all connections are secure and properly insulated. Incorrect wiring can lead to overheating and fire.
- **Professional Installation:** If you are unsure about any aspect of the installation, consult a qualified electrician or automotive technician.
- **Environmental Conditions:** While waterproof, ensure the installation location is protected from extreme physical damage or prolonged submersion beyond its intended use.

3. PRODUCT OVERVIEW

The EVTSCAN HT-608 is a compact and robust circuit protection device. It features a durable housing, clearly marked terminals, and a manual reset button for convenience.



Figure 3.1: Front view of the EVTSCAN HT-608 Circuit Breaker. This image displays the main face of the circuit breaker, clearly showing the "WATERPROOF" and "60A" labels, along with "Ignition Protected" at the bottom. The two main terminals are covered by rubber caps, and mounting holes are visible at the top and bottom.

Key Features:

- **Automatic Reset:** Automatically restores circuit operation after an overload condition is removed.
- **Waterproof Design:** Provides protection against water ingress, suitable for marine and outdoor applications.
- **Ignition Protected:** Designed to prevent ignition of flammable vapors, making it safe for use in engine compartments.
- **High Current Rating:** Rated for 60 Amps, suitable for high-power DC circuits.
- **Versatile Voltage:** Operates on DC12-24V systems.
- **Panel Mount:** Designed for secure and easy installation on a panel or flat surface.

4. SPECIFICATIONS

The following table details the technical specifications of the EVTSCAN HT-608 Circuit Breaker:

Feature	Specification
Model	HT-608
Brand	EVTSCAN
Current Rating	60 Amps (Note: Product title indicates 60A, while some specifications may list 50A. Please refer to the product label for the exact rating of your unit.)
Voltage Rating	DC 12-24V
Circuit Breaker Type	Standard, Automatic Reset
Mounting Type	Panel Mount
Protection Features	Waterproof, Ignition Protected

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your circuit breaker. Follow these steps carefully:

- 1. Choose Mounting Location:** Select a flat, stable surface for mounting, such as a panel or bulkhead. Ensure there is sufficient space for wiring and access to the reset button.
- 2. Mark Mounting Holes:** Use the circuit breaker as a template to mark the positions for the mounting screws.
- 3. Drill Pilot Holes:** Drill appropriate pilot holes for your mounting screws.
- 4. Mount the Breaker:** Securely fasten the circuit breaker to the chosen surface using suitable screws.
- 5. Wiring Connections:**
 - Identify the "BAT" (Battery/Input) terminal and the "AUX" (Auxiliary/Output) terminal. These are typically marked on the unit.
 - Connect the positive (+) wire from your power source (e.g., battery) to the "BAT" terminal.
 - Connect the positive (+) wire leading to your load (e.g., accessory, device) to the "AUX" terminal.
 - Ensure all connections are tight and free from corrosion. Use appropriate crimp terminals for secure connections.
- 6. Secure Terminal Covers:** Ensure the rubber caps covering the terminals are intact and properly seated to maintain waterproof integrity.
- 7. Verify Installation:** Double-check all wiring and mounting before restoring power.



Figure 5.1: Front and back views of the circuit breaker, highlighting the input/output terminals and mounting holes. This image shows both sides of the unit, which are essential for correct installation. The "WATERPROOF" and "60A" labels are visible on the front, and the back reveals the internal components and additional mounting points.

6. OPERATING INSTRUCTIONS

The EVTSCAN HT-608 is an automatic reset circuit breaker, meaning it will automatically reset itself once an overload condition is removed and the breaker has cooled down. It also features a manual reset/trip button for testing or disconnecting the circuit.

Automatic Operation:

When an overcurrent condition occurs (e.g., a short circuit or excessive load), the circuit breaker will trip, interrupting the flow of electricity to protect the circuit. Once the fault is cleared and the breaker cools, it will automatically reset, restoring power to the circuit. This automatic reset feature is ideal for applications where temporary overloads are common and immediate power restoration is desired.

Manual Operation:

The circuit breaker is equipped with a manual reset button. This button can be used for two purposes:

- **Manual Trip:** To manually open the circuit (disconnect power), press the button firmly. The button will pop out, indicating the circuit is open.
- **Manual Reset:** If the breaker has tripped and the button is popped out, you can manually reset it by pushing the button back in. Ensure the fault condition has been resolved before manually resetting.



Figure 6.1: Angled view of the circuit breaker, highlighting the manual reset button. This perspective clearly shows the black manual reset button located on the side of the unit, which can be pressed to manually trip or reset the breaker. The waterproof caps on the terminals are also visible.

7. MAINTENANCE

The EVTSCAN HT-608 Circuit Breaker is designed for minimal maintenance. However, periodic inspection can help ensure its longevity and reliable performance:

- **Visual Inspection:** Regularly check the circuit breaker for any signs of physical damage, corrosion, or discoloration.

- **Terminal Connections:** Ensure all wire connections remain tight and secure. Loose connections can cause resistance, leading to heat buildup and potential failure.
- **Waterproof Seals:** Verify that the rubber caps covering the terminals are intact and properly seated to maintain the waterproof rating.
- **Cleanliness:** Keep the circuit breaker clean and free from dirt, dust, and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.

8. TROUBLESHOOTING

If you encounter issues with your EVTSCAN HT-608 Circuit Breaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Circuit breaker trips frequently.	<ul style="list-style-type: none"> ◦ Overload on the circuit. ◦ Short circuit in the wiring or connected device. ◦ Faulty wiring or loose connections. ◦ Circuit breaker is undersized for the load. 	<ul style="list-style-type: none"> ◦ Reduce the load on the circuit. ◦ Inspect wiring and connected devices for shorts. ◦ Check and tighten all electrical connections. ◦ Ensure the circuit breaker's current rating matches or exceeds the maximum expected load.
Circuit breaker does not reset.	<ul style="list-style-type: none"> ◦ Persistent fault condition (e.g., continuous short circuit). ◦ Internal damage to the circuit breaker. 	<ul style="list-style-type: none"> ◦ Identify and resolve the fault condition. The breaker will reset automatically once the fault is cleared and it cools. ◦ If no fault is present and the breaker still won't reset, it may be damaged and require replacement.
No power to the circuit, but breaker is not tripped.	<ul style="list-style-type: none"> ◦ Loose input connection. ◦ Fault in the power source. ◦ Fault in the connected device. 	<ul style="list-style-type: none"> ◦ Check the connection from the power source to the "BAT" terminal. ◦ Verify the power source is active. ◦ Test the connected device independently.

If troubleshooting steps do not resolve the issue, contact customer support.

9. WARRANTY INFORMATION

EVTSCAN products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official EVTSCAN website. Typically, warranty coverage addresses defects in materials and workmanship under normal use.

Please retain your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support regarding your EVTSCAN HT-608 Circuit Breaker, please contact EVTSCAN customer service through the retailer where you purchased the product or via the official EVTSCAN brand store on Amazon:

[Visit the EVTSCAN Store on Amazon](#)

When contacting support, please have your product model (HT-608) and purchase details ready.

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Model: HT-608