

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [RED WOLF](#) /

› [RED WOLF 50A Amp Circuit Breaker for Boat Trolling Motor Marine ATV Vehicles Stereo Audio Battery Solar System Inline Fuse with Manual Reset Switcher DC 12V-48V Instruction Manual](#)

RED WOLF BXS-D50

RED WOLF 50A Amp Circuit Breaker Instruction Manual

Model: BXS-D50

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RED WOLF 50A Amp Circuit Breaker. Designed for DC 12V-48V systems, this circuit breaker offers reliable overcurrent protection for various applications including boat trolling motors, marine vehicles, ATVs, stereo audio systems, battery setups, and solar systems. Its manual reset feature eliminates the need for replacement fuses, providing convenience and enhanced safety.

2. PRODUCT OVERVIEW

The RED WOLF 50A Amp Circuit Breaker is engineered for durability and performance. It features a waterproof resistant housing and a robust build, ensuring longevity in demanding environments. The unique manual reset push button allows for easy circuit control and can function as a kill switch.

Key Features:

- **System Protection:** Acts as a 50A circuit breaker and battery disconnect, protecting against excessive current.
- **Durable Construction:** New design with waterproof resistant housing and solid build.
- **Manual Reset:** Unique on and off reset push button, eliminating the need for replacement fuses.
- **Versatile Application:** Suitable for auxiliary and accessory circuits in boats, marine vehicles, RVs, yachts, batteries, trailers, buses, trucks, ATVs, winches, and DC sound amplifier systems.



Figure 2.1: RED WOLF 50A Amp Circuit Breaker and included accessories.

3. PACKAGE CONTENTS

Upon opening your package, please verify that all items listed below are present and undamaged:

- 1 x RED WOLF 50A Amp Circuit Breaker
- 2 x Screws for mounting
- Copper core ring terminals (quantity may vary based on specific kit)

WHAT YOU GET?



2 PCS
Screw



1 PC
Circuit Breaker

Figure 3.1: Package contents including the circuit breaker and mounting screws.

4. SAFETY WARNINGS

Before installation, please read the safety warnings carefully to prevent injury or damage to equipment.

- Use only within the rated voltage/current.
- Disconnect the power supply before installation or maintenance.
- Operate with insulated gloves and tools when the power is off.
- Select cables of the appropriate specification based on the actual operating current. Do not use cables that are too thin or of poor quality.
- Do not disassemble or modify the circuit breaker. This may result in fire or electric shock.
- Installation must be carried out by qualified personnel. Keep away from children, untrained personnel, and pets.

Before installation, please read the safety warnings carefully



- 1. Use only within the rated voltage/current;**
- 2. Disconnect the power supply before installation or maintenance. Operate with insulated gloves and tools when the power is off;**
- 3. Select cables of the appropriate specification based on the actual operating current. Do not use cables that are too thin or of poor quality;**
- 4. Do not disassemble or modify the circuit breaker. This may result in fire or electric shock;**
- 5. Installation must be carried out by qualified personnel. Keep away from children, untrained personnel and pets.**

Figure 4.1: Important safety warnings and product dimensions.

5. INSTALLATION

The RED WOLF 50A Amp Circuit Breaker is designed for surface mounting. Ensure the mounting location is secure and provides adequate space for wiring and operation.

5.1 General Installation Steps

- 1. Choose a Mounting Location:** Select a dry, secure, and easily accessible location for the circuit breaker.
- 2. Mark Drilling Points:** Use the circuit breaker as a template to mark the two screw holes for mounting.
- 3. Drill Pilot Holes:** Drill appropriate pilot holes for the included screws.
- 4. Mount the Breaker:** Secure the circuit breaker to the surface using the provided screws.
- 5. Connect Wiring:** Connect the positive (+) wire from your power source (e.g., battery) to the 'BAT' terminal and the positive (+) wire to your load (e.g., trolling motor, inverter) to the 'AUX' or 'LOAD' terminal. Ensure all connections are tight and secure. The negative (-) wire typically bypasses the circuit breaker and connects directly to the load.





To trolling motor(-)

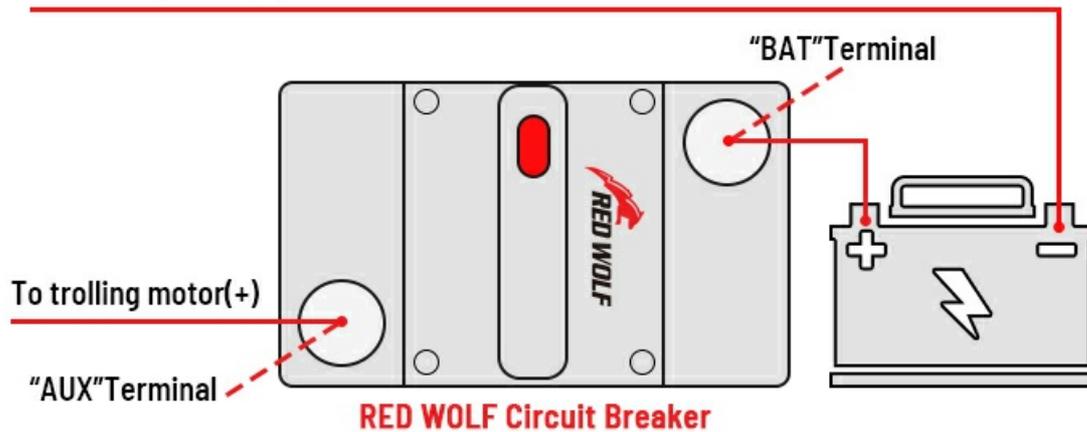


Figure 5.2: Wiring diagram for connecting the circuit breaker to a battery and trolling motor. The 'BAT' terminal connects to the positive battery terminal, and the 'AUX' terminal connects to the positive trolling motor terminal. The negative trolling motor terminal connects directly to the negative battery terminal.

5.2 Wire Size Specification

Refer to the table below to select the appropriate wire size for your rated current to ensure safe and efficient operation.

CIRCUIT BREAKER WIRE SPECIFICATION

<i>Rated Current</i>	<i>Wire Size No.</i>
5A to 10A	#18
>10A to 15A	#16
>15A to 20A	#14
>20A to 30A	#12
>30A to 40A	#10
>40A to 50A	#8
>50A to 60A	#6
>60A to 90A	#4
>90A to 120A	#2
>120A to 150A	#0
>150A to 200A	#00

Figure 5.3: Wire specification table for circuit breakers.

6. OPERATION

The RED WOLF 50A Amp Circuit Breaker features a simple manual reset mechanism for controlling power to your connected devices.

6.1 Turning Off the Circuit

To manually disconnect the circuit and stop power flow, press the red button on the circuit breaker. The red reset arm will pop out, indicating the circuit is open.

6.2 Resetting the Circuit

To restore power after the circuit has been manually turned off or automatically tripped due to overcurrent, simply push the red reset arm back into its original position. This will close the circuit and allow current to flow again.

MANUAL RESET SWITCH



Stop Working
Press the red button



Working
Reset the level back to position

Manual control and easy to operate w/ manual reset level

Figure 6.1: Manual reset switch operation, illustrating the 'Stop Working' (red button pressed out) and 'Working' (red button reset) positions.

7. MAINTENANCE

To ensure optimal performance and longevity of your RED WOLF 50A Amp Circuit Breaker, follow these general maintenance guidelines:

- **Regular Inspection:** Periodically inspect the circuit breaker for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Keep the circuit breaker clean and free from dirt, dust, and moisture. Use a dry cloth for cleaning.
- **Connection Integrity:** Ensure all wire connections to the terminals are tight and secure. Loose connections can lead to overheating and poor performance.
- **Avoid Overloading:** Do not intentionally overload the circuit beyond its rated 50A capacity, as this can cause premature wear or failure.

8. TROUBLESHOOTING

If you encounter issues with your RED WOLF 50A Amp Circuit Breaker, consider the following troubleshooting steps:

- **Circuit Breaker Trips Frequently:** If the breaker trips often, it indicates an overcurrent condition. Check your connected devices for faults or excessive power draw. Ensure the total current draw does not exceed 50A.
- **No Power to Device:** Verify that the circuit breaker's reset arm is fully engaged (pushed in). Check all wiring connections for looseness or corrosion. Ensure the power source (battery) is adequately charged and functioning.
- **Breaker Does Not Reset:** If the breaker does not reset after pushing the arm, there might be a persistent fault or internal damage. Disconnect power and inspect the unit. If damage is suspected, replace the unit.

9. SPECIFICATIONS

Specification	Detail
Brand	RED WOLF
Current Rating	50 Amps
Voltage	DC 12V-48V
Product Dimensions	3"D x 1.9"W x 1.4"H
Circuit Breaker Type	Standard
Mounting Type	Surface Mount
Number Of Poles	1
Item Weight	6.4 ounces
Model Number	BXS-D50

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official RED WOLF website. Keep your purchase receipt for warranty claims.

