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Baomain 400 Amp.

Baomain 400A ANL Fuse Holder Kit Instruction Manual

Model: 400 Amp.

1. INTRODUCTION AND OVERVIEW

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your Baomain 400A ANL Fuse Holder Kit. This kit is designed to protect electrical systems in various applications, including car audio, amplifiers, and 12V/24V DC systems, from overcurrents and short circuits.

The Baomain ANL Fuse Holder features gold-plated terminals for enhanced conductivity and corrosion resistance, housed within a durable, heat-resistant plastic casing. It is compatible with 0/2/4 AWG wires, making it suitable for a wide range of high-power electrical setups.



Image 1.1: Baomain 400A ANL Fuse Holder Kit.

2. PRODUCT FEATURES

- **400A High-Current Protection:** Designed for 400 Amp ANL fuses to safeguard car audio systems, amplifiers, and 12V/24V vehicle electronics from power surges or short circuits. Suitable for high-power applications like inverters and off-road lighting.
- **Durable & Heat-Resistant Construction:** Zinc-alloy fuse and insulating plastic holder withstand temperatures from -20°C to 70°C (-68°F to 158°F), ensuring reliable performance in high-temperature environments such as engine bays.
- **Easy Installation & Broad Compatibility:** Universal in-line design fits 0/2/4 AWG wires and works with most car audio setups, RVs, marine systems, and solar power installations. Features a clear status window for quick fuse checks.
- **Enhanced Safety & Conductivity:** Gold-plated terminals reduce resistance and prevent corrosion, while the insulated cover prevents accidental contact. RoHS-compliant materials meet safety standards for long-term use.

3. WHAT'S IN THE BOX

The Baomain 400A ANL Fuse Holder Kit includes the following components:

- 1x ANL Fuse Holder (clear plastic base and cover)
- 1x 400A ANL Fuse
- Necessary nuts and washers for installation



Image 3.1: Kit components including fuse holder, 400A ANL fuse, nuts, and washers.

4. SAFETY INFORMATION

WARNING: Electrical work can be dangerous. Always disconnect the power source before installing or servicing electrical components. If you are unsure about any part of the installation process, consult a qualified electrician or automotive technician.

- Ensure the fuse rating matches the circuit's requirements. Using an incorrect fuse rating can lead to damage or fire.

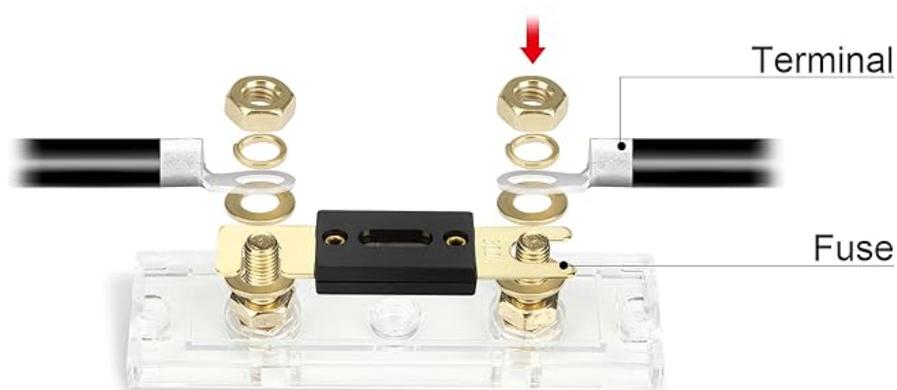
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Avoid contact with live electrical terminals.
- Ensure all connections are tight and secure to prevent arcing and overheating.
- Mount the fuse holder in a dry location, away from excessive heat or moisture.

5. SETUP AND INSTALLATION

Follow these steps to install the ANL fuse into the holder and integrate it into your electrical system:

1. **Prepare the Fuse Holder:** Open the clear plastic cover of the fuse holder. Unscrew the nuts and remove the top washers from both gold-plated bolts.
2. **Insert the Fuse:** Place the 400A ANL fuse onto the bolts, ensuring it sits securely under the second washer on each bolt. The fuse should bridge the two gold-plated terminals.
3. **Secure the Fuse:** Re-attach the top washers and tighten the nuts firmly onto the bolts to secure the fuse in place. Do not overtighten.
4. **Connect Wires:** Connect your 0/2/4 AWG power cables to the gold-plated terminals. Ensure the wire terminals are clean and make full contact with the gold-plated surface. Tighten the nuts securely over the wire terminals.
5. **Close the Cover:** Snap the clear plastic cover back onto the fuse holder. This protects the fuse and terminals from environmental elements and accidental contact.
6. **Mount the Holder:** Use the screw mount holes on the plastic base to securely fasten the fuse holder to a stable surface in your vehicle or system.

INSTALLATION SCHEMATIC



*Picture is only the installation diagram, not the actual delivery of the product.

Image 5.1: Installation schematic for the ANL fuse holder.

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Video 5.2: This video demonstrates the process of installing an ANL fuse into the holder, including opening the cover, unscrewing bolts, inserting the fuse, tightening bolts, and closing the cover.

APPLICATION



Image 5.3: Examples of the fuse holder installed in various automotive applications.

6. OPERATING INSTRUCTIONS

The Baomain ANL Fuse Holder operates passively as a protective device. Once installed, it continuously monitors the current flow in the circuit. No active user operation is required during normal use.

The clear cover allows for visual inspection of the fuse element. If the fuse element is broken, it indicates that the fuse has blown due to an overcurrent condition and requires replacement.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your fuse holder:

- **Periodic Inspection:** Periodically inspect the fuse holder and connections for any signs of corrosion, loose connections, or physical damage.
- **Cleaning:** Keep the fuse holder clean and free from dirt, dust, and moisture. Use a dry, soft cloth for cleaning.
- **Fuse Replacement:** If the fuse blows, replace it only with an ANL fuse of the exact same amperage rating

(400A). Never use a fuse with a higher rating or bypass the fuse, as this can lead to severe damage to your electrical system or fire.

8. TROUBLESHOOTING

If your electrical system is not functioning as expected, consider the following troubleshooting steps:

- **No Power:** If there is no power to the protected circuit, first check the ANL fuse. A broken fuse element indicates a blown fuse.
- **Blown Fuse:** If the fuse has blown, replace it with a new 400A ANL fuse. Before replacing, investigate the cause of the overcurrent (e.g., short circuit, overloaded component) to prevent immediate re-occurrence.
- **Intermittent Power:** Check all wire connections to the fuse holder and the rest of the circuit. Loose connections can cause intermittent power or overheating.
- **Overheating:** If the fuse holder or wires feel excessively hot, immediately disconnect power and inspect for loose connections, incorrect wire gauge, or an overloaded circuit.

9. SPECIFICATIONS

Detailed specifications for the Baomain 400A ANL Fuse Holder Kit:

Specification	Value
Brand	Baomain
Model Number	400 Amp.
Fuse Type	ANL
Current Rating	400 Amps
Voltage Rating	32 Volts DC
Compatible Wire Gauge	0/2/4 AWG
Material	Plastic (Holder), Zinc Alloy (Fuse), Gold-plated (Terminals)
Operating Temperature	-20°C to 70°C (-68°F to 158°F)
Product Dimensions (L x W x H)	4.72 x 1.18 x 1.18 inches
Item Weight	3.53 ounces

Dimension

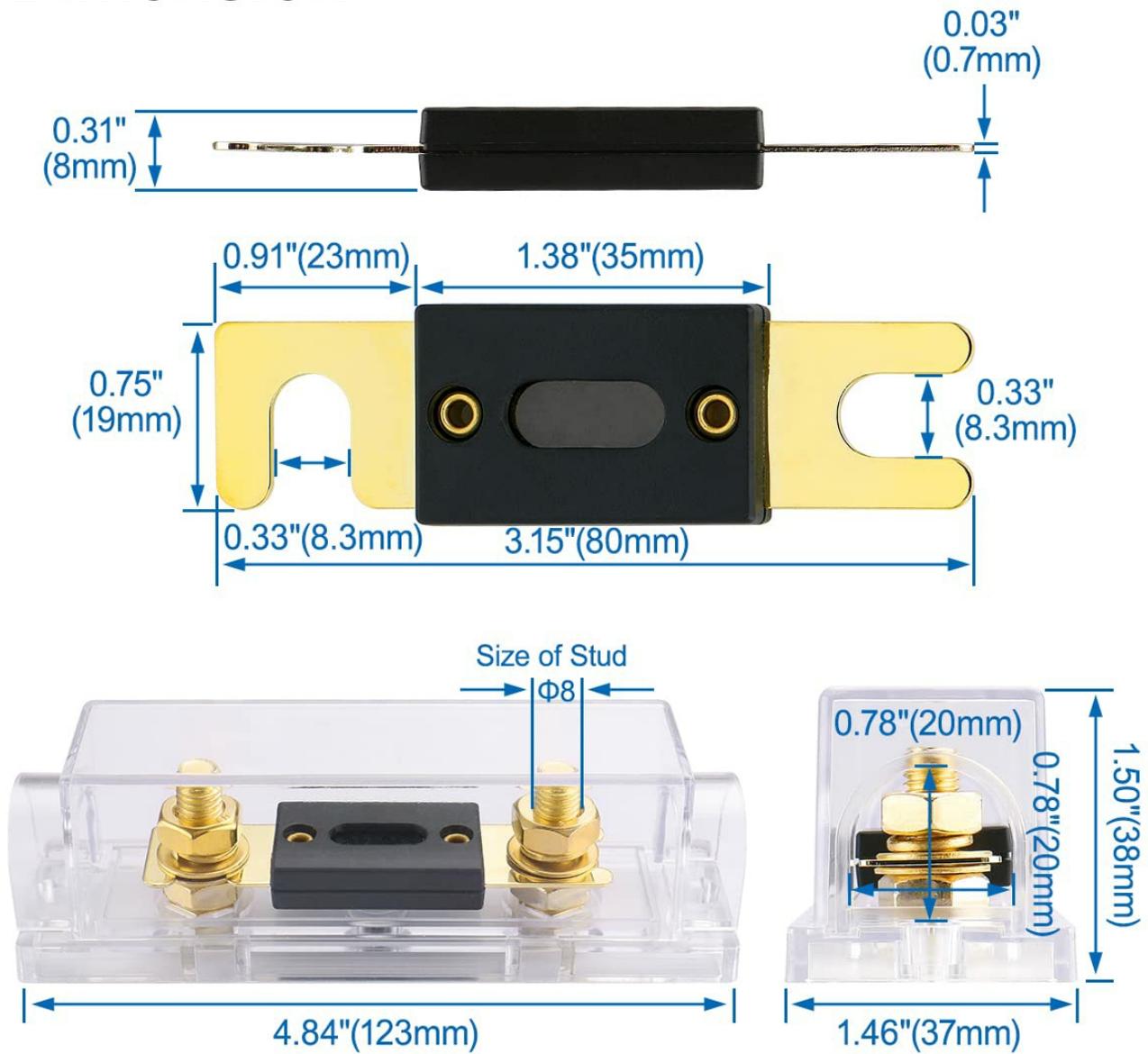


Image 9.1: Dimensional drawing of the fuse holder and ANL fuse.

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Baomain 400A ANL Fuse Holder Kit, please refer to the product packaging or contact Baomain customer service directly through their official website or the retailer where the product was purchased.

You can visit the [Baomain Store on Amazon](#) for more product information and contact options.