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› Bussmann AGX-3 Glass Fuse Instruction Manual

## Bussmann AGX-3

# Bussmann AGX-3 Glass Fuse Instruction Manual

Model: AGX-3

## INTRODUCTION

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This instruction manual provides important information regarding the safe and effective use of the Bussmann AGX-3 Glass Fuse. Please read this manual thoroughly before installation or replacement to ensure proper function and safety. This fuse is designed to protect electrical circuits from overcurrent conditions.

## PRODUCT OVERVIEW

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The Bussmann AGX-3 is a fast-acting glass fuse specifically designed for automotive applications. It provides crucial protection for electrical system components and wiring by interrupting the circuit when an overcurrent condition occurs.

- **Type:** AGX Automotive Glass Fuse
- **Dimensions:** 1/4 inch diameter X 1 inch long
- **Current Rating:** 3 Amps
- **Function:** Fast acting design protects crucial electrical system components and wiring



*Image 1:* A Bussmann AGX-3 Glass Fuse. This image shows a clear glass fuse with metallic end caps, typical of automotive cartridge fuses, designed to protect electrical circuits.

## SPECIFICATIONS

<b>Brand</b>	Bussmann
<b>Model</b>	AGX-3
<b>Material</b>	Glass
<b>Current Rating</b>	3 Amps
<b>Dimensions</b>	1/4 inch diameter x 1 inch long
<b>Mounting Type</b>	Surface Mount (typical for fuse holders)
<b>Item Weight</b>	0.352 ounces
<b>Manufacturer Part Number</b>	AGX-3
<b>UPC</b>	051712704779

## INSTALLATION AND REPLACEMENT

The Bussmann AGX-3 fuse is designed for installation in compatible fuse holders within automotive or other low-voltage electrical systems. Always ensure the replacement fuse matches the original fuse's specifications (type, voltage, and amperage rating).

### Safety Precautions:

- **Disconnect Power:** Before attempting to install or replace a fuse, always disconnect power to the circuit to prevent electrical shock or damage to the system.
- **Verify Rating:** Use only fuses with the correct amperage rating (3 Amps for AGX-3). Using a fuse with a higher rating can lead to wiring damage or fire. Using a lower rating may cause premature blowing.
- **Inspect Fuse Holder:** Ensure the fuse holder is clean and free from corrosion or damage.

### Installation Steps:

1. **Locate Fuse Holder:** Identify the fuse holder for the circuit requiring protection or fuse replacement.
2. **Remove Old Fuse (if applicable):** Carefully extract the blown or old fuse from its holder.
3. **Insert New Fuse:** Gently insert the Bussmann AGX-3 fuse into the fuse holder, ensuring it is seated firmly. Do not force the fuse.
4. **Restore Power:** Once the fuse is securely in place, restore power to the circuit.
5. **Test Circuit:** Verify that the circuit is functioning correctly.

## OPERATION

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The Bussmann AGX-3 fuse operates as a sacrificial device designed to protect electrical components from damage caused by excessive current. When the current flowing through the circuit exceeds the fuse's 3 Amp rating for a specified duration, the metallic element inside the glass tube melts, creating an open circuit. This action safely interrupts the flow of electricity, preventing potential damage to wiring, devices, or other components connected to the circuit.

## MAINTENANCE

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Fuses like the Bussmann AGX-3 are generally maintenance-free. Their primary function is to fail when an overcurrent occurs. The only maintenance required is inspection and replacement.

- **Regular Inspection:** Periodically inspect fuses in critical circuits. A blown glass fuse will typically show a broken or melted filament inside the glass tube.
- **Replacement:** If a fuse blows, it indicates an electrical issue. Replace the blown fuse only after identifying and rectifying the cause of the overcurrent. Always replace with a fuse of the identical type and rating (AGX-3 Amp).

## TROUBLESHOOTING

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### Fuse Blows Immediately After Replacement:

If a new fuse blows immediately upon installation or when the circuit is activated, it indicates a persistent short circuit or a severe overload in the electrical system. Do not continue to replace fuses without addressing the underlying problem, as this can cause significant damage or fire.

- **Action:** Disconnect power and thoroughly inspect the wiring and connected components for shorts, frayed wires, or faulty devices. Consult a qualified electrician or automotive technician if you cannot identify the cause.

### Circuit Not Functioning After Fuse Replacement:

If the fuse appears intact but the circuit remains inoperative, check the following:

- **Fuse Seating:** Ensure the fuse is properly seated in its holder.
- **Other Fuses:** Check if other fuses in the system (e.g., main fuse) have blown.
- **Component Failure:** The issue might not be the fuse but a failure in the component or wiring itself.

## SAFETY INFORMATION

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Working with electrical components carries inherent risks. Adhere to the following safety guidelines:

- Always disconnect power before handling fuses or working on electrical circuits.
- Never use a fuse with a higher amperage rating than specified for the circuit.
- Do not bypass a fuse with wire or foil, as this eliminates circuit protection and creates a fire hazard.

- If you are unsure about any electrical work, consult a qualified professional.
- Keep fuses out of reach of children.

## WARRANTY AND SUPPORT

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Bussmann products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your purchase or visit the official Bussmann website. For technical support or inquiries, please contact Bussmann customer service through their official channels.

*Note: Fuses are consumable items designed to protect circuits by blowing when an overcurrent occurs and are generally not covered under warranty for normal operation (i.e., blowing due to overcurrent).*