

## Fuse Saver® Instruction Manual for #8005A & #8016A

### #8016A Master Kit Shown



**Helps Find Short Circuits Without Blowing a Fuse**

Innovative Products of America® Incorporated  
845-679-4500 • 234 Tinker Street, Woodstock, NY 12498 • [www.ipatools.com](http://www.ipatools.com)

© 2026 Innovative Products of America® Incorporated. All rights reserved. This material may not be reproduced, displayed, modified or distributed without the express prior written permission of the copyright holder. For permission, contact [info@ipatools.com](mailto:info@ipatools.com).



## **LETTER FROM THE PRESIDENT OF IPA®**

My name is Ian Vinci and I would like to thank you for your interest in our products. In today's world, we have all experienced the lack of service and consideration demonstrated by many companies after you buy their products. They say whatever they can to make the sale, and then it's like pulling teeth to get any service response out of them. I know this myself firsthand and because of this, I want to be sure that your experience with IPA® meets your expectations and that IPA® never disappoints you with our service or customer response.

To prove my commitment to you, if for any reason, you are not happy with one of our products, or more importantly, with the response from our customer service department, or any member of the IPA® team, I invite you to contact me directly via my email, [president@ipatools.com](mailto:president@ipatools.com) or call me at 888-786-7899. Your satisfaction is more important to me than the sale itself. We will not be in business for long if we don't make you completely happy with our products and service. I want IPA® to be different and be known for its quality and service.

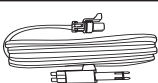
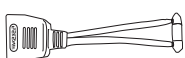
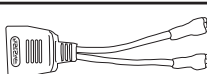
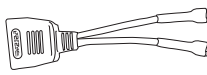
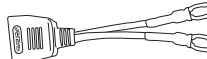
With that said, please take a look at our product line. You will see innovative first time products that were created to help you do your job faster and better than before. I would also like to invite you to critique our products. If you can think of a better way to make them or changes that will make them work better, please contact me directly and I will be sure to look into it. If you have an innovation and would like some feedback, give me a call.

From all of us at IPA®, we thank you for taking the time to review our product line and wish you and your family the very best of everything.

**Ian Vinci**  
**President**  
**IPA®**

**[www.ipatools.com](http://www.ipatools.com)**  
**Toll Free: 888-786-7899**  
**Phone: 845-679-4500**  
**Fax: 845-679-4600**

## PARTS AND ACCESSORIES

|                                                                                     | REPLACEMENT<br>PART # | DESCRIPTION                                      | INCLUDED<br>IN    |
|-------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------|-------------------|
|    | #8005A-5A             | <b>Orange 5A Fuse Saver®</b> Handle              | #8016A            |
|    | #8005A-10A            | <b>Red 10A Fuse Saver®</b> Handle                | #8005A/<br>#8016A |
|    | #8005A-15A            | <b>Blue 15A Fuse Saver®</b> Handle               | #8005A/<br>#8016A |
|    | #8005A-20A            | <b>Yellow 20A Fuse Saver®</b> Handle             | #8005A/<br>#8016A |
|    | #8005A-30A            | <b>Green 30A Fuse Saver®</b> Handle              | #8016A            |
|    | #8005-7               | <b>10-ft. Cord with Dual ATC/ATO Connections</b> | #8005A/<br>#8016A |
|    | #8011                 | <b>BuzzAlert</b> Module                          | #8016A            |
|    | #8006A                | <b>Glass Fuse Adapter</b>                        | #8016A            |
|    | #8007A                | <b>European Ceramic Adapter</b>                  | #8016A            |
|     | #8005-8               | <b>MCASE Fuse Adapter</b>                        | #8005A/<br>#8016A |
|  | #8005-9               | <b>MICRO2/3 Fuse Adapter</b>                     | #8005A/<br>#8016A |
|   | #8008A                | <b>Female PAL and MAXI Fuse Adapter</b>          | #8016A            |
|   | #8009A                | <b>Female FLF and PAL Standard Adapter</b>       | #8016A            |
|   | #8012A                | <b>MAXI Fuse Adapter</b>                         | #8016A            |
|   | #8013A                | <b>Ring Terminal Adapter</b>                     | #8016A            |

**Available Separately:** Additional 10 Ft. Extension Power Cord (#8005-EXT)

Use the Provided Reference Numbers When Ordering Products and Parts Above  
[www.ipatools.com](http://www.ipatools.com) - Toll Free: 888-786-7899



**RISK OF EXPLOSION**



**RISK OF FIRE**



**WEAR SAFETY  
GOGGLES**



**RISK OF ENTANGLEMENT**



**WARNING**



**RISK OF BURN**

## **WARNINGS**

- To prevent arcing and avoid unnecessary wear that voids your warranty, always disconnect battery before inserting the tool.
- If any arcing is found during installation or use, disconnect immediately and recheck system.
- Do not connect to areas that have been subjected to heat from loose fuse contact (i.e. melted plastic housing in area of fuse for the circuit to be tested).
- Do not connect to loose or corroded contacts—this can cause arcing, extreme heat or fire.
- Do not assume that the fuse removed is the proper rated amperage for that circuit. Check vehicle's owner's manual for proper fuse size.
- Do not store in wet conditions or use in temperatures exceeding 110° F or below 40° F.

**IMPORTANT NOTE: THE FUSE SAVER® HANDLE IS NOT DESIGNED TO MATCH THE BREAKING CURRENT OF A FILAMENT-TYPE FUSE. IT IS A BI-METAL HEATED ELEMENT DESIGNED TO SAFELY STRESS AN ELECTRICAL CIRCUIT SO THE TECHNICIAN CAN EASILY DISCOVER THE CAUSE OF A BAD CIRCUIT. EACH FUSE SAVER® HAS AN AMPERAGE RATING LISTED ON ITS HANDLE, THAT RATING IS DESIGNED FOR THAT CIRCUIT TYPE, NOT TO BE MATCHED AGAINST A STANDARD FUSE RATING.**

## INTRODUCTION

The Fuse Saver® provides a fast and safe solution for troubleshooting short circuits without blowing fuses or damaging vehicle electrical systems. The kit includes resetting, thermal breaker handles which are color coded to match the vehicle fuses. Simply plug the Fuse Saver® directly into the fuse box in place of the troubled circuit's fuse via the supplied 10-ft. Cord with Dual ATC/ATO Connections or adapters were applicable. When a short is present, the breaker will trip. The user must then manually reset the breaker to reapply power to the circuit. The variety of adapters and connectors are compatible with eleven different fuse types including Glass, European Ceramic, Large Female PAL, JCASE, Female FLF/Standard PAL, MAXI, Ring Terminal, MICRO2/3, MCASE, ATC/ATO Standard and Mini.

## BEFORE INSERTING FUSE ADAPTER INTO THE FUSE BOX

- Read all warnings.
- Prior to any electrical work, it is always best to first disconnect the negative battery terminal.
- Determine which circuit you want to test and what amperage rating the manufacturer requires for this circuit. (Verify proper fuse size by checking the vehicle's owner's manual.)
- Remove and inspect the fuse as well as the fuse connection identified as the troublesome circuit. Do not use the tool if a meltdown is found at the fuse terminal connection.
- Verify that the connection for the fuse is clean from corrosion and that the plastic insulation of the fuse box is not blistered or deformed from heat. (If this is the case, replace fuse box and internal connectors before proceeding.)
- Always install the 10-ft. Cord with Dual ATC/ATO Connections with breaker handle connected.
- Select a breaker which matches the manufacturer's amperage requirement for the specific circuit to be tested and connect it to the BuzzAlert (optional), then to the female end of the 10-ft. Cord with Dual ATC/ATO Connections Handles are color coded for easy selection.
- Install the large side of the 10-ft. Cord with Dual ATC/ATO Connections into the corresponding fuse adapter. Be sure that the opposite end of the connector is clear of any foreign objects that may short across it.
- Reconnect vehicle's negative battery terminal.

**TROUBLESHOOTING A SHORT CIRCUIT**

- With the Fuse Saver® installed to the vehicle’s fuse box, begin looking for the short circuit. When a short is present, or the amperage draw in the circuit exceeds the value of the Fuse Saver® handle in use, the thermal breaker housed inside of each Fuse Saver® handle will trip.
- When the breaker trips, the switch located at the top of the handle will pop up, revealing a white tab.
- Once the breaker has tripped, power to the circuit is removed in order to prevent damage to the circuitry.
- To reapply power, simply depress the switch until it stays down by itself.

**NOTE: Thermal breakers require a cooldown time before they can be reset. If the breaker does not stay down when depressed, more cooldown time is required. If the breaker trips immediately after it’s pressed down, this could indicate a direct short versus a circuit overload. Once the repair has been made, be sure to replace the fuse within the correct amperage rating, as found in the vehicle’s Owner’s Manual.**

**UNDERSTANDING AMPERAGE RATINGS ON BREAKERS**

The breaker handles are thermal type, which can absorb amperage higher than the fuse rating for a period of time. This should be considered when selecting the amperage handle for the circuit being tested.

The chart below provides guidance on the percentage of current the circuit may be allowed to carry before the breaker trips. For circuits with sensitive electronic equipment where any over-current is not desired, the technician should choose the next rating down. For example, a 15-amp fuse will typically blow in less than 100 milliseconds if the current in the circuit exceeds the fuse rating. The 15-amp thermal breaker will allow a specified amount of current for a specified period of time. If the technician wants to ensure the breaker trips instantly, a 10-amp thermal breaker may be a better choice for diagnostic purposes.

When testing dead shorts, the delayed trip time will be virtually imperceptible, as a maximum current value is achieved nearly instantaneously

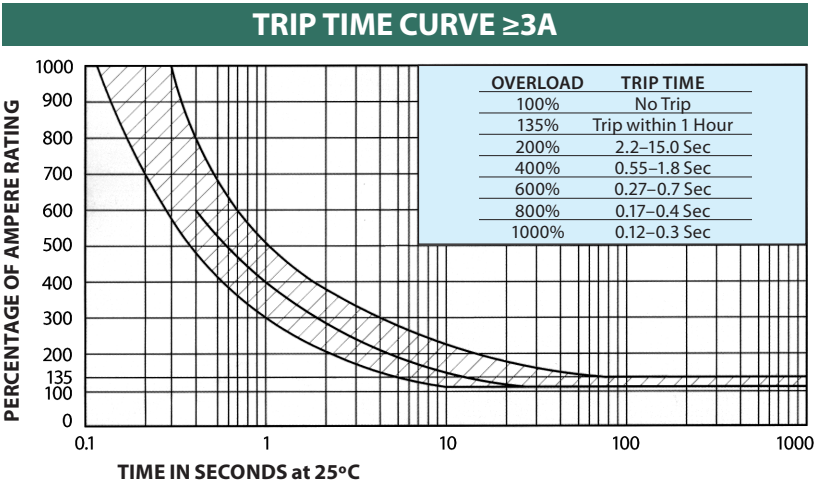
| LOAD % | TRIP TIME         |
|--------|-------------------|
| 100%   | NO TRIP           |
| 135%   | < 1 Hour          |
| 200%   | 2.2 – 15 Seconds  |
| 400%   | .55 - 1.8 Seconds |
| 1000%  | .12 - .3 Seconds  |

| Specifications    |                 | Overload Indicators                                                                           |
|-------------------|-----------------|-----------------------------------------------------------------------------------------------|
| Operating Voltage | 10V DC – 14V DC | White open indicator on 5, 10, 15, 20, and 30-amp protection handles and beeper on BuzzAlert. |
| Operating Temp    | 40°F - 110°F    |                                                                                               |

**UNDERSTANDING INRUSH CURRENT, OVERLOAD AND SHORT CIRCUITS**

Inrush current is the current required by the load during initial operation. Some loads, such as large electrical motors, may require an inrush current that significantly exceeds the continuous current needed to operate. Inrush current typically exceeds the circuit limit for a very short period, often less than 50 milliseconds. When a motor begins to fail, the first symptom is often an increase in inrush current or an inrush current that lasts for an extended period. This will often lead to blown fuses. A blown fuse caused by excessive inrush current should be classified as an Overload and not a short circuit. In these scenarios, a thermal breaker is an excellent tool for troubleshooting, as it allows for an extended period of inrush current. At the same time, the circuit remains operational, and the current draw returns to normal levels.

In the event of a short circuit, where the + terminal is connected to the ground, or a short occurs within a wire, motor, or load the thermal breaker will trip quickly. The technician should always be cautious not to allow extended periods of overload current draw to repeatedly operate in a circuit while using the Fuse Saver®. Doing so could lead to damaged wiring or downstream electrical components.



# Fuse Saver<sup>®</sup> Instruction Manual for #8005A & #8016A

## #8005A Standard Kit Shown



## 10, 15 and 20A Short Circuit Diagnostic Aid

Innovative Products of America<sup>®</sup> Incorporated  
845-679-4500 • 234 Tinker Street, Woodstock, NY 12498 • [www.ipatools.com](http://www.ipatools.com)

© 2026 Innovative Products of America<sup>®</sup> Incorporated. All rights reserved. This material may not be reproduced, displayed, modified or distributed without the express prior written permission of the copyright holder. For permission, contact [info@ipatools.com](mailto:info@ipatools.com).

#INSTR-8005AIPA\_Manual\_VA-01-07