

## SPECIAL NOTES

The Fuse Saver® is a thermal breaker and is not meant to act or blow like a regular fuse. It is designed to blow at a much higher threshold than a regular fuse and still protect the circuit. This allows the tech more time to find the problem. Each Fuse Saver is 100% TESTED to assure safety. For reference, the trip chart in the Specifications section shows the average trip times (the amount of time the breaker takes to open) at 77° F. The actual trip time shortens above 77° F and lengthens below this temperature. At 110° F, it decreases approximately 15% and at 40° F, it increases approximately 15%. These breakers trip slower than fuses allowing a moderate amount of overload for diagnosing problems.

## TROUBLESHOOTING A SHORT CIRCUIT

1. If a short or overload exists in a circuit, the white breaker open indicator on top of the breaker handle will pop up as will the Buzz alert sound, informing the operator of the circuit break.
2. By depressing the breaker switch after a few seconds, you will be able to continue your search for the source of the short circuit.
3. If the circuit is directly shorted to a ground, the indicator will not stay in the housing after it is depressed, since the breaker will stay open, indicating a "Direct Short". At this point, in order to continue to trouble shoot the short, unplug one device at a time until the breaker can be re-set, indicating the location of the short.
4. 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.

## 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. (E.g. melted plastic housing in area of fuse for the circuit to be tested.)
- ◇ Do not connect to loose or corroded contacts which 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 or use in temperatures exceeding 110° Fahrenheit or below 40° Fahrenheit.

## DO NOT STORE OR OPERATE THIS TOOL IN WET CONDITIONS

## RETURN FOR REPAIR POLICY

Every effort has been made to provide reliable, superior quality products. However, in the event your product requires repair, please contact:



**Innovative Products of America®**  
Warranty/Repair:  
234 Tinker Street, Woodstock, NY 12498  
845-679-4500 · 845-679-4600 fax  
888-786-7899 · [www.ipatools.com](http://www.ipatools.com)

008016-2IPA-v07



# FUSE SAVER® MASTER KIT

#8016

**5, 10,15, 20, 30 AMP Short Circuit Diagnostic Aid  
including the BuzzAlert™ and Fuse Box Adapter Kit.**

*Replaces ATO and ATM (mini) fuse in troubled circuit for short circuit diagnostics.*

## USER MANUAL



**WARNING**



**RISK OF ENTANGLEMENT**



**RISK OF FIRE**



**RISK OF BURN**



**RISK OF EXPLOSION**

**(KEEP SPARKS AWAY FROM BATTERY)**



**WEAR SAFETY GOGGLES**



**READ COMPLETE USER MANUAL WITH WARNINGS BEFORE OPERATING.**

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**THIS TOOL IS NOT TO BE STORED OR OPERATED IN WET CONDITIONS**

## INTRODUCTION

The Fuse Saver® Kit model #8016 allows you to move about the vehicle with the fuse connection in your hand and helps you determine if that circuit you have just unplugged is the cause of a short or not. There is no need to return to the fuse box or keep large quantities of fuses on hand for short-circuit diagnostics. When the selected circuit is either shorted or drawing too much current the white breaker open indicator will rise and power is then cut to the circuit. The Fuse Saver® is also extremely useful for repairs requiring frequent removal of power to the circuit under repair, as well as intermittent shorts.

## SPECIFICATIONS

Operating Voltage	10 -14VDC
Operating Temp	40° F -110°F
Cased Product Weight	2 LBS
Cased Dimensions	L 12 1/2" W 3" H 15 1/2"

LOAD%	TRIP TIME
100%	NO TRIP
135%	<1hr
200%	2.2—12 sec
400%	.55—1.2 sec
1000%	.12—3sec

## OVERLOAD INDICATORS

White open indicator on 5,10,15,20 and 30amp protection handles and beeper on BuzzAlert™.

## KIT INCLUDES

- ◇ Blown Mold Case
- ◇ 5 amp Protection Handle, Orange (#8005-5AMP)
- ◇ 10 amp Protection Handle, Red (#8005-10AMP)
- ◇ 15 amp Protection Handle, Blue (#8005-15AMP)
- ◇ 20 amp Protection Handle, Yellow (#8005-20AMP)
- ◇ 30 amp Protection Handle, Green (#8005-30AMP)
- ◇ Buzz Alert™ Adapter (#8011)
- ◇ Fuse Box Adapter Kit\* - Six Fuse Adapters (#8014)
- ◇ Fuse Box Connector - 3.7" with 10 ft Zip Cord (#8005-7)

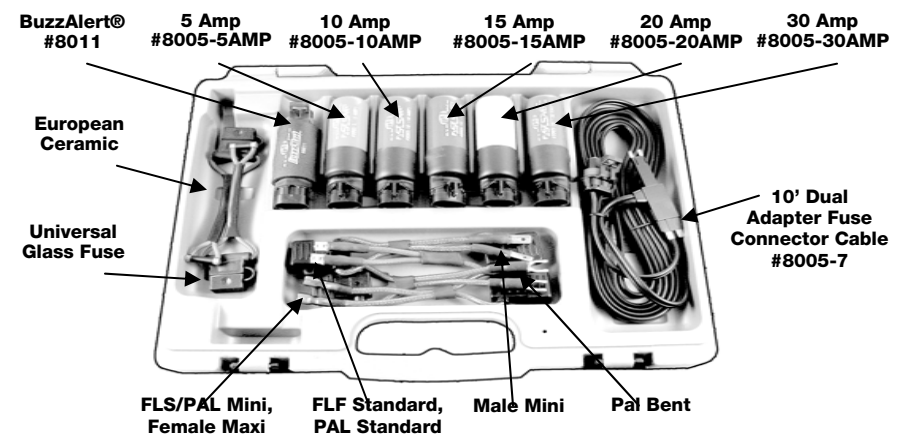
\* #8014 Fuse Box Adapter Kit can be used in place of the following types of fuse connections: FLF, JCASE, MAXI, FEMALE MAXI, FLS, EURO CERAMIC, GLASS FUSE, ATC, ATC MINI, SUPER MINI, PAL STANDARD, PAL BENT MALE, RING TYPE AND MORE

## PREPARATIONS FOR USE

### Before inserting the fuse adapter into the fuse box:

- a) Read All Warnings.
- b) Disconnect the negative battery terminal on the vehicle.
- c) 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.)
- d) Remove and inspect the fuse as well as the fuse connection identified as the troublesome circuit. Do not use the tool if a melt down is found at the fuse terminal connection.
- e) 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.)
- f) Always install #8005-7 Fuse Box Connector cable with breaker handle connected
- g) Select a breaker which matches the manufacturer's amperage requirements for the specific circuit to be tested and connect it to the Buzz alert (optional), then to the female end of the Fuse Box Connector cable. Handles are color coded for easy selection.
- h) Install the large side of #8005-7 Fuse Box Connector cable 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.
- i) Reconnect vehicles Negative battery terminal.

## FUSE HANDLES



## FUSE ADAPTERS

**AVAILABLE SEPARATELY:**  
Additional 10' extension power cord: #8005-EXT