

1000-2500 Watt Safety Kit Installation Instructions

General:

The safety kit is designed for installation of DC to AC power inverters up to 2500 watts. Using the wires and connectors included in this kit will improve the performance and extend the useful life of the DC to AC power system which includes the vehicle's batteries and charging system, the cable and connectors, the power inverter and the load (TV's, microwaves, etc.) Using the proper fuse inside the fuse holder will protect the vehicle and contents from damage caused by shorted wiring.



Required Tools:

- Portable torch or soldering iron for soldering, or crimping tool or vise grips for crimping
- Adjustable wrench with insulated handle
- Phillips and slotted screwdrivers
- Electrical tape
- Hacksaw or cable cutters
- Drill and drill bits
- Knife or wire stripper
- 4-mounting screws for power inverter
- 2-mounting bolts and nuts for fuse holder

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Explanation:

- The short red wire is to go from the positive terminal of the battery to one side of the fuse holder. The fuse inside the fuse holder protects your vehicle from damage caused by accidental shorting of the long red wire to ground.

Use 150-amp fuse for 1000 watt power inverters

Use 200-amp fuse for 1500 watt power inverters

Use 250-amp fuse for 2500 watt power inverters

- The long **red** wire is to go from the other side of the fuse holder to the positive (+) terminal of the power inverter.
- The **black** wire is to go from the negative (–) terminal of the battery to the negative terminal of the power inverter.
- The **green** wire is to go from the chassis ground of the vehicle to the ground terminal of the power inverter.

Connectors:

- All connectors are made from high quality copper and covered with anti-corrosion coating.
- Two of the connectors have larger (3/8") holes for connection directly to the battery
- Two of the connectors (wedge shaped) are to be used if your power inverter has screw down terminals. Using these connectors will prevent loosening over time

Grommets:

- The grommets are very important. Make sure to use grommets to protect the wires when going through holes drilled in metal

Preparation:

- 1) Find a location for the fuse holder near the battery.
- 2) Find a location for the power inverter inside of vehicle.
- 3) Drill holes for routing the **red (+)** and **black (–)** wires from battery into vehicle. Make sure to use grommets to protect the wires from rough metal edges. The **green** wire is the ground and no grommet is needed.
- 4) Use a hacksaw or cable cutters to cut wires to required length. Remember; too long is better than too short.
- 5) Strip back insulation (5/8") on ends of wires.

Caution:

- Never work on electrical wiring in the rain, while drinking or under medication
- Disconnect battery, never work on electrical wiring while connected to the battery
- The last connection is always connecting to the positive terminal of the battery

Warranty:

The components (excluding fuses) of the safety kit are warranted for one year from date of purchase

Instructions for a negative ground 12-volt electrical system

(The negative terminal of the battery is connected to the chassis or engine housing)

Installation:

- 1) Crimp or solder connectors to both ends of short **red** wire
- 2) Crimp or solder connector to one end of long **red** wire, **black** wire and **green** wire
- 3) Mount fuse holder to secure location near battery
- 4) Mount power inverter inside vehicle. Most power inverters can be mounted horizontally, vertically or upside down
- 5) Remove fuse holder cover. Remove top nut and washer from fuse posts.
 - Use 150-amp fuse for 1000 watt power inverters
 - Use 200-amp fuse for 1500 watt power inverters
 - Use 250-amp fuse for 2500 watt power invertersPlace fuse on top of bottom washer on both posts. Place connector on short red wire on fuse end on post nearest battery. Place washer on top connector and tighten nut. Place connector on long red wire on fuse end of remaining post. Place washer on top of connector and tighten nut. Replace fuse holder cover and secure cover with cable ties or electrical tape.
- 6) Connect the black wire connector to the negative (–) terminal of the battery
- 7) Connect the green wire connector to the chassis ground of the vehicle. The chassis ground is the point where the wire from the negative terminal of your battery is connected to the metal frame or engine
- 8) Route the long red, black and green wires to power inverter. Crimp or solder the connectors on all wires
- 9) Connect the red wire connector to the red terminal of the power inverter. Tighten securely
- 10) Connect the black wire connector to the black terminal of the power inverter. Tighten securely
- 11) Connect the green wire connector to the ground (copper) connection of the power inverter
- 12) Recheck connections and make sure the red wire or its connectors are not touching any metal parts of the vehicle or the black connectors
- 13) Make sure the power inverter is OFF. Connect the end of the short red wire to the battery. Be careful, there is normally a spark at this time
- 14) Turn the power inverter ON