PURKEYS

INVERTER HARNESS
P808-1001FC

INSTALLATION GUIDE

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TOOLS REQUIRED FOR INSTALLATION

- Center Punch and Hammer
- 5/32” Drill Bit
- 3-1/2” Hole Saw
- Phillips Screwdriver
- Adjustable Wrench

Cable Clamp: Qty 2

Split Washer: Qty 7

Screw: Qty 7

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Cable Tie: Qty 6

Fuse Cube Bracket

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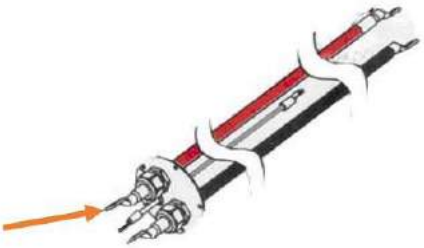
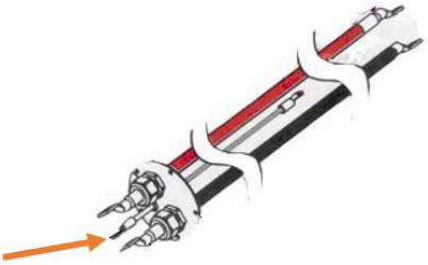
Fuse Cube Assembly: Fuse Cube Nut & Fuse Cube

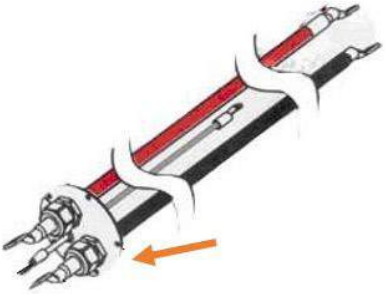


Postive Cable: 10 Ft

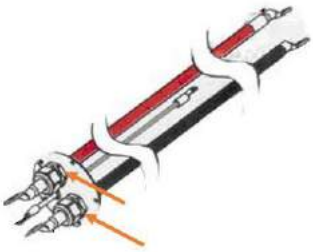
Negative Cable: 10 Ft



Chassis Ground Wire: 5 Ft



Mounting Plate



Dome Nut: Qty 2

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INSTALLING THE HARNESS AND INVERTER

Note: Remember to read the guide accompanying your inverter for detailed explanations of its installation and operation instructions.

Warning	Explosive or Fire	Be sure the battery compartment is well ventilated. Flammable fumes are often present when working with batteries.
Caution	Reverse Polarity	Power connections to the inverter must be positive to positive and negative to negative. A reverse polarity connection (postive to negative) will permanently damage the unit. Damage caused by a reverse polariy connection will not be covered under warranty.

INSTALLING THE MOUNTING PLATE

Step 1: Find a suitable location for the inverter in the cab. Be sure the battery cables can reach (max 10 ft.) from the batteries, through the cab floor, to the inverter (see Figure 1). Do not mount or install the inverter at this time.

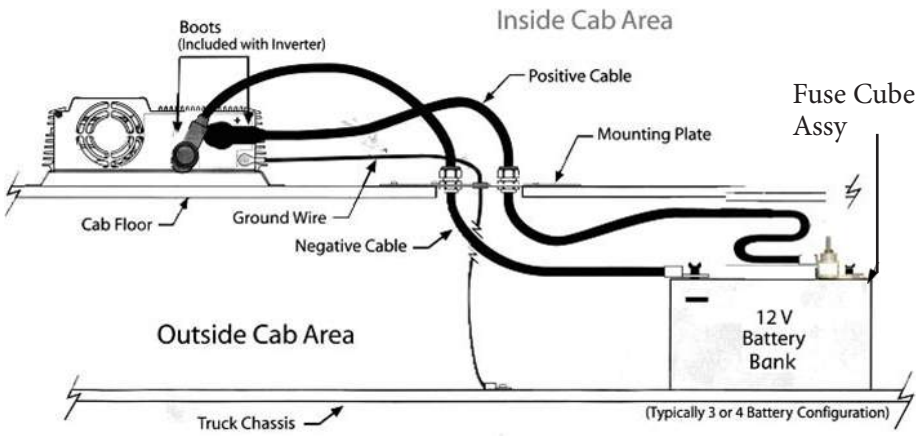


Figure 1

Step 2: Remove the floor covering where the mounting plate will be placed.

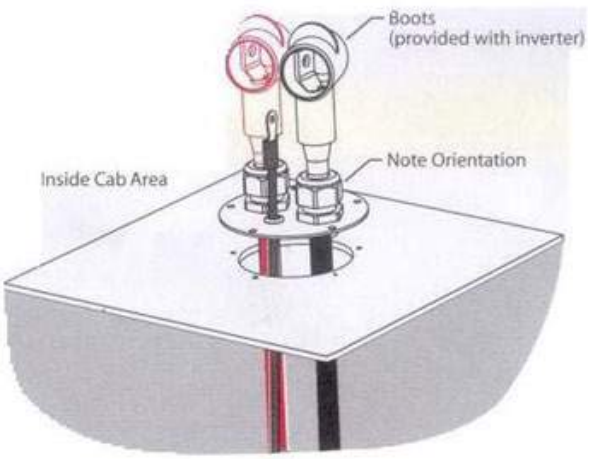
Step 3: Using a center punch and a hammer, and the mounting plate as a pattern, mark the locations for drilling the access hole (3-1/2") and the mounting screw holes.

Step 4: If you are installing the mounting plate onto wood, skip to step 5. Using the 5/32" drill bit, drill 6 pilot holes, 5 for the screws and one for the 3-1/2" access hole.

Step 5: Drill a 3-1/2" diameter hole using the center pilot hole with the 3-1/2" hole saw.

Step 6: Cover the positive and negative ring terminals, which will be connected to the inverter's DC terminals, using the boots provided with the inverter. This will reduce the potential for any short circuits during handling and installation.

Step 7: Run the battery cables and the ground wire through the access hole. (See Figure 2 for correct orientation.)



Mounting Plate Orientation

Figure 2

Step 8: Secure the mounting plate to the floor with the screws and washers provided.

Step 9: Making sure the dome nuts are loose, provide enough battery cable and ground wire to attach their respective terminals to the locations as shown in Figure 1.

Step 10: Carefully tighten the dome nuts with the adjustable wrench.

Step 11: Find a suitable location to mount the fuse cube that allows the short positive cable to be attached to the battery positive terminal. Mark and drill pilot holes using the 5/32" drill bit. Do not connect the short positive cable to the battery at this time.

INSTALLING THE INVERTER

Decide on the configuration for your AC output. If you choose to use AC outlets other than the GFCI receptacles on the inverter, refer to the Inverter Guide. If you choose to use the inverter's GFCI receptacle, continue with the steps below.

1. Make sure the inverter switch is in the OFF position and the truck engine is off.
2. Position the inverter so you can easily access the AC outlets and the DC terminals and to allow sufficient airflow through the vents on the bottom and sides of the inverter.
3. If you are going to use the remote switch, plug the cable into the jack on the bottom of the inverter.
4. Attach one end of the chassis ground wire (small black) to the inverter and the other end to an unpainted portion of the truck chassis, as close to the battery ground connection as possible.
5. Connect the fuse cube assembly to the positive post of the battery, together with any battery cable previously disconnected.
6. Attach the battery cables to the inverter DC terminals and to the battery in the following sequence to minimize the possibility of sparks or explosions.

    a. Connect the positive battery cable to the positive DC terminal on the inverter (torque to 9-10 ft-lbs. or 12.2-13.6 N-m).

    b. Connect the positive battery cable to the fuse cube assembly (between the fuse cube and the fuse cube nut) that you previously connected to the positive post of the battery.

    c. Connect the negative battery cable to the negative post on the battery, together with any battery cable previously disconnected.

    d. Connect the negative battery cable to the negative DC terminal on the inverter (torque to 9-10 ft-lbs. or 12.2-13.6 N-m).

7. Refer to the Inverter Guide for operating instructions.
8. Secure the battery cables and ground wire along the chosen route using the cable ties provided.

9. Permanently mount the inverter with the supplied screws and washers, following the instructions in the Inverter Guide.
10. Install a cable clamp (provided) on the positive cable inside the battery box, just before the cable exits the battery box, by drilling pilot holes using the 5/32" drill bit and mounting the cable clamps with the screws provided. This will reduce any stress on the fuse cube assembly.
11. Mount the remote switch (if used).

TROUBLESHOOTING THE INSTALLATION

Note: Before troubleshooting, ensure that:

1. The battery and the inverter are connected per instructions.
2. The truck engine is turned off.
3. The inverter's ON/OFF switch is turned ON.
4. No appliance or equipment is plugged into the inverter

Problem	Possible Cause	Suggested Remedy
GFCI receptacle power light is off. All other AC panel LEDs are off.	No power to the inverter	If no voltage at DC terminals, but voltage is present at battery, re-check all DC cables. If no voltage at battery terminals, test battery and replace as necessary
	Fuse is blown	Replace fuse with same rating
	Short circuit in wiring causing fuse to blow	Check wiring and replace fuse with same rating
	Reverse polarity	Have inverter tested and replaced if necessary
GFCI receptacle power light is off. All other AC panel LEDs are on.	GFCI reset button has popped out	Push the GFCI reset button into reset position
	High input voltage	Refer to the troubleshooting section in the Inverter Guide
	Low input voltage	Refer to the troubleshooting section in the Inverter Guide

NOTE: If the inverter still does not operate, refer to the troubleshooting section in the Inverter Guide for more information.

LIMITED COMMERCIAL WARRANTY POLICY

Purkeys Fleet Electric, Inc. (hereafter "Purkeys"), warrants each product to be free of defects in material or workmanship under normal use and service. This warranty is for the benefit of Original Equipment Manufacturers, Dealers, Warehouse Distributors, Fleets, or other End Users (hereafter "Customers") and covers products manufactured by Purkeys and sold new to Customers either directly by Purkeys or by its authorized dealers, distributors, or agents. The length of the Warranty Period is 36 months.

The warranty period commences on the in-service or install date and is not transferable. Failure to provide the in-service or install date on the warranty claim form will cause the warranty period to begin on the date the part was manufactured or date of sale recorded on the original sales invoice, whichever is earlier.

A completed warranty claim form should accompany all parts submitted to Purkeys for consideration for repair or replacement under warranty. The submitted claim form should contain all of the information required. Lack of a properly or fully completed claim form will result in delay or denial of warranty claim. Claims must be submitted no later than 30 days after part is removed.

This warranty does not apply if, in sole judgement of Purkeys, the product has been damaged or subjected to accident, faulty repair, improper adjustment, improper installation or wiring, neglect, misuse, or alteration or if the product failure is caused by defects in peripheral vehicle components or components attached to the Product or failure of a part not manufactured by Purkeys.

This warranty shall not apply if any Purkeys product is used for a purpose for which it is not designed or is in any way altered without the specific prior written consent of Purkeys. ANY Product alleged by a Customer to be defective must be inspected by Purkeys as a part of the warranty claims process in order to confirm that the part has failed as a result of a defect in material or workmanship.

Transportation for products and parts submitted to Purkeys for warranty consideration must be prepaid by Customer. Repaired or replaced products and or components will be returned to Customer pre-paid by Customer or "freight collect" to the address provided by Customer in the warranty claim form. No charge will be made for labor or material in effecting such repairs.

The Warranty provided by Purkeys hereunder is specifically limited to repair or replacement of the Product as Purkeys deems most appropriate in its sole discretion. Purkeys neither assumes nor authorizes any other person to assume on its behalf any other warranty or liabilities in connection with Purkeys products. The Warranty does not apply to fuses or other "consumable" or maintenance items which are or may be a part of any Purkeys product.

THIS WARRANTY DOES NOT APPLY TO LOSS OF VEHICLE OR EQUIPMENT, LOSS OF TIME, INCONVENIENCE, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. PURKEYS SPECIFICALLY DISCLAIMS AND SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES arising out of or from the use of Purkeys products by the Customer.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, INCLUDING COMMON LAW WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, AND ANY OTHER EXPRESS OR IMPLIED WARRANTIES. ALL OTHER SUCH WARRANTIES ARE SPECIFICALLY DISCLAIMED.

This Limited Commercial Warranty supersedes all previous Warranty Policies issued by Purkeys and any of its suppliers.

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WATT Keeps You Trucking