Xantrex Prosine™ 2.5/3.0 Inverter/Charger

Installation Instructions for the
Prosine GFCI Receptacle Accessory

1. Important Safety Instructions

⚠️ **WARNING**
Shock hazard. Make sure all voltages are removed from the AC Wiring Compartment (see "Installation" below) before continuing. Xantrex recommends that all wiring be done by a certified electrician or technician.

WARNING
The GFCI accessory is not to be used directly or indirectly with life support apparatus or associated circuitry.

Before attempting to install and use this GFCI Receptacle / Wiring Cover assembly, be sure to read these instructions. If you have not yet installed the Prosine unit itself, be sure to read the Prosine Owner's and Installation Manuals before attempting to install either the main unit or this accessory.

Be sure to test the GFCI as instructed below before putting the unit into service, and monthly after that, as recommended by the GFCI manufacturer.

2. Tools Required

To install and test the GFCI Receptacle / Wiring Cover assembly, you will require a:

- Flat blade screwdriver
- Small Phillips screwdriver
- Test load rated at 120 VAC (we recommend a small portable lamp)
- Voltmeter

3. Installation

To wire the GFCI outlet to the Xantrex Prosine Inverter/Charger, follow these instructions. As a reminder, first ensure that power is removed from all AC and DC wiring connected to the Prosine Inverter/Charger.

1. Turn the Prosine's **BYPASS/ON** switch to the **BYPASS** position. This switch is located on the left side of the Prosine Inverter/Charger.

2. Remove power from the AC supply connected to the Prosine's "AC Input" terminals, by turning off the breaker or removing the fuse at the electrical panel feeding that circuit.

3. The AC wiring compartment is located at the bottom, right side of the Prosine. Remove the cover from this compartment by removing the single Phillips screw on the front of the cover. Keep the screw handy for securing the new cover.

4. Steps 1 and 2 should ensure that there is no voltage present on the "AC Output" terminals. Test this using a voltmeter connected between one of the Output Line terminals and one of the Output Neutral terminals, before proceeding. If voltage is still present on the "AC Output" terminals **DO NOT CONTINUE.** Re-check steps 1 and 2.

5. Connect the wires on the GFCI Receptacle / Wiring Cover assembly to the Prosine as shown in Figure 1 below. The GFCI Receptacle / Wiring Cover assembly is provided with 3 pre-stripped wires for connection to the Prosine's AC Output terminals: one black, one white, and one green with a yellow stripe. The upper row of the Prosine AC terminal block should have 3 unused "AC Output" terminals, marked Line, Neutral, and Ground (there will be 6 unused Output terminals if you do not have a load circuit connected to the terminal block already). The following color code must be observed while making the connections from the GFCI Receptacle / Wiring Cover assembly to the Prosine AC Output terminals:

GFCI Assembly Wire Color	Prosine Output Terminal
Black	Line
White	Neutral
Green with yellow stripe	Ground ("GND")

Insert each wire into the correct terminal, making sure no strands are left sticking out of the terminal, and that the terminal is clamping down on the bare wire strands, not the wire insulation. Tighten each terminal with a slot screwdriver to 20 in-lbs.
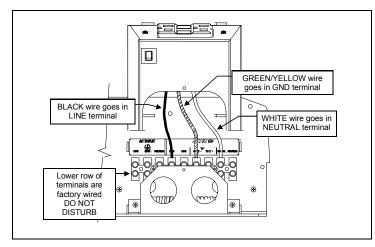

Figure 1: Connecting the GFCI Wiring to the Prosine's AC Wiring Terminals

6. Re-check the connections to see that the wires are in the correct terminals (as in the above chart) and that the terminals are tight.

7. Install the GFCI Receptacle / Wiring Cover over the terminals, making sure no wires are pinched between the cover and the main Prosine housing. Place the hooked tabs at the top of the cover into the slots provided on the main housing, and swing the cover down over the terminal strip. Secure the cover to the main housing using the single Phillips screw that held on the old cover.

4. Testing

> **WARNING**
> Shock hazard. Do not use the GFCI receptacle until you have successfully completed the testing steps below.

1. Re-apply power to the AC supply connected to the Prosine's "AC Input" terminals.

2. Make sure the GFCI is not in the "tripped" state by pushing the **RESET** button all the way in. The **RESET** button should be flush with the face of the **TEST** button.

3. Connect the test lamp to the GFCI receptacle. The lamp should turn on. If it does not, and pushing the **RESET** button does not correct the problem, then the connections from the Prosine to the GFCI assembly were not made correctly. Repeat all of the steps in section 3 and 4.

4. Press the **TEST** button on the GFCI receptacle. The **RESET** button should immediately pop out, and the test lamp should go out. If both happen, the GFCI is installed and functioning correctly. Press **RESET** and the test lamp should come back on.

5. If, in step 4, the **RESET** button pops out but the test lamp does not go out, it indicates* that the Line and Neutral wires were reversed during the installation of the GFCI and must be reconnected correctly. Do not use the GFCI receptacle in this condition. Repeat all of the steps in section 3 and 4. If the problem persists, contact Xantrex.
    *Note: This may also be an indication that the line and neutral are reversed on the source feeding the AC Input circuit.

6. If, in step 4 above, the **RESET** button does not pop out when the **TEST** button was pushed, the GFCI is not functioning correctly. Do not use the GFCI receptacle in this condition. Repeat all of the steps in section 3 and 4, and if the problem persists, contact Xantrex.

7. If the test in step 4 above is successful, remove power from the source connected to the AC Input, and turn the Prosine's **BYPASS/ON** switch to the **ON** position. Place the Prosine in **INVERT** mode. Repeat steps 2–6 above to make sure the GFCI is functioning correctly when powered from the inverter. When this test has been successfully completed, the installation is complete.

8. Test the GFCI monthly, by repeating step 4. Do not use the GFCI receptacle if it does not successfully pass the tests.

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