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## Technical Bulletin for Installers re Fronius GFDI board Upgrade / Replacement

June 14, 2007

Fronius USA has identified a potential component weakness in a limited number of GFDI boards which could cause the GFDI board to falsely indicate a ground fault problem which would be displayed as a State Code 434 when the inverter is operating at or near full power in hot climates. It is important to note that this problem does not present any safety risk nor is it going to damage the inverter if left operating. Therefore Fronius suggests that even if the inverter is falsely showing a State 434 due to the component weakness that you leave the inverter turned on as it will go through an automatic reset either when the inverter cools down sufficiently or every morning at startup and produce power until the State Code 434 is falsely detected again.

Fronius has isolated the component weakness, the component batch from the supplier and the serial numbers of the inverters potentially affected. Although it is likely that only a small percentage of inverters installed in the US will experience problems from this component weakness, Fronius is taking immediate pro active measures to ensure that all inverters which utilized components from the batch are upgraded.

Inverters which Fronius would like to replace or upgrade the GFDI board on will have a serial number starting with 1814\_ \_ \_ \_ or higher and shipped from Fronius in Brighton, Michigan in Mid April 2007 forward. Inverters with serial numbers less than 1814 \_ \_ \_ \_ are not affected.

Installers can upgrade the inverter in the field by replacing the GFDI board in the plug and play section of the inverter. It is estimated that this process will take between 15 to 30 minutes. Instead of the standard Fronius flat rate service reimbursement of \$90.00, Fronius will provide elevated service compensation of \$175.00 per GFDI board replaced in the field. Please contact our technical support at 810 220 4414 with the serial number of your inverter (s) to proceed.

It is our goal to resolve this quickly and with a minimum of inconvenience. Fronius appreciates your business and support.

Best Regards

A handwritten signature in blue ink, appearing to read "Gord Petroski".

Gord Petroski  
Director Fronius USA,  
Solar Electronics Division