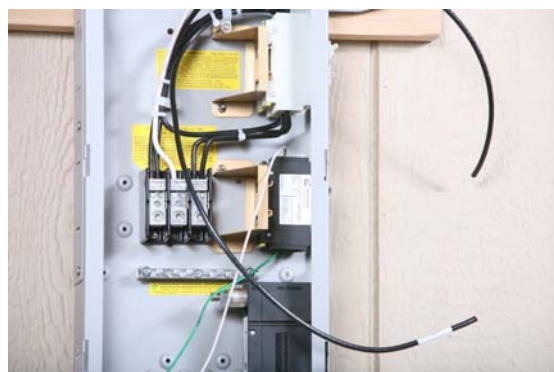
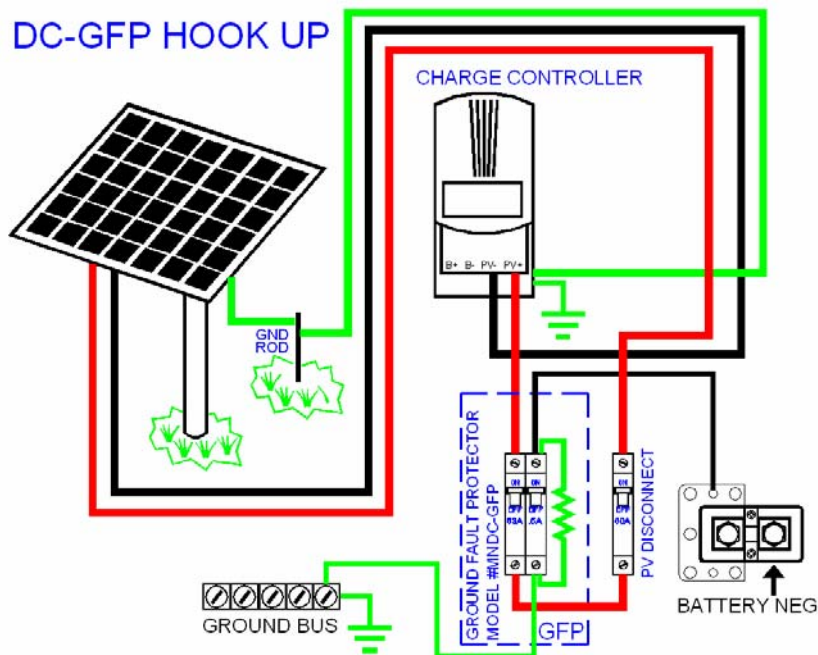




DC-GFP INSTALLATION

The DC-Ground Fault Protector is required by the US National Electric Code for residences that have roof top mounted photovoltaic panels. The wiring diagram below shows the GFP after the PV disconnect. It can also be placed prior to the disconnect.

This custom UL listed breaker from CBI works as follows: The ½ amp section is connected between the battery negative and earth ground. The 63 amp section connects to the PV plus output from the array up to 150VDC. The ½ amp section serves as the battery negative/earth bond. **Do not add any other battery negative to earth bonds as that would defeat the functionality of this assembly.** The ½ amp breaker is meant to detect current flowing in wiring where it is not supposed to be flowing. For instance, if your PV wiring on the roof develops a short, that would cause the 63 amp section to trip, thus cutting off power that may otherwise start a roof fire.



Cut out spaces to allow for the breaker assembly. GFP assembly installed, but not yet wired. Make sure the yellow snaps are totally snapped onto the din rail. Torque to 20 inch pounds. Re-torque one hour later. Sometimes wires cold flow and loosen up upon initial clamping. If tripping occurs, check wiring carefully. More often than not, there is a wiring error rather than a short.