

# Solar Batch Water Heater Assembly Guide

V 1.0 May 2004

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Picture 1



Picture 2



Frame:

Finger tight only bolt together the frame side rails, left and right sides.

Picture 3



Attach lower brace with 8 plastic boots between the two frames.

Picture 4



Mount two reflectors between the frames  
Do not over tighten.

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Picture 5



Locate the 4 slotted studs on the bottom of the water tank.

Picture 6



Insert the drain plug with Vaseline into bottom hole in water tank.

Picture 7



Lay vacuum tube on doubled towel and with a little Vaseline or soapy water very carefully pull down the outer silicone seal.

Picture 8



Smear vaseline on inside lip of silicone ring inside tank and on outer lip of vacuum tube glass. Mount tank with 4 nuts onto the frame cradle. Finger tight the tank can rotate to align with bottom brace.

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Picture 9



Lay towel across the bottom brace to prevent smacking the tubes on steel. Use firm rotating motion to push and twist the tubes into the silicone ring inside the water tank. BE CAREFUL. Have someone hold the tank

Picture 10



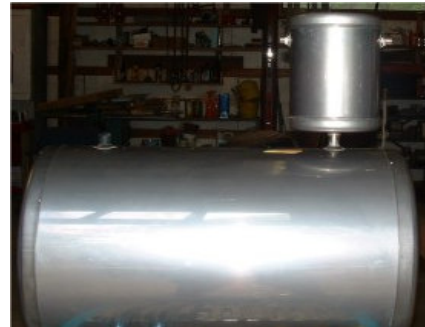
Push the tube up into the tank so it is above the lower brace then slide it down again and gently seat it into the lower cup.

Picture 11



Two tube shown installed. The frame can now be tightened. A drop of green loctite is useful on the threads. Tighten down the 4 under water tank nuts to cradle. Watch what you do with the wrenches. Work slowly !

Picture 12



Shows the float valve can on top of the water tank. Optional accessory. In non freezing climate allows the cold water to refill the water tank as hot water is drawn off and to bring down the temperature of a really hot tank of water. Inlet at upper right and atmosphere vent on upper left.

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Picture 13



Meter on the wall

Picture 14



Install Sensor Vertically

## Safety

**Warning:** these batch water heaters are unregulated devices. Water temperatures will go **above the scalding temperature**. In some environments above 200 degrees F.

**Prevent access from people and children unfamiliar with safe usage !**