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Assembly manual



Structural supporting marks and stainless steel reflectors

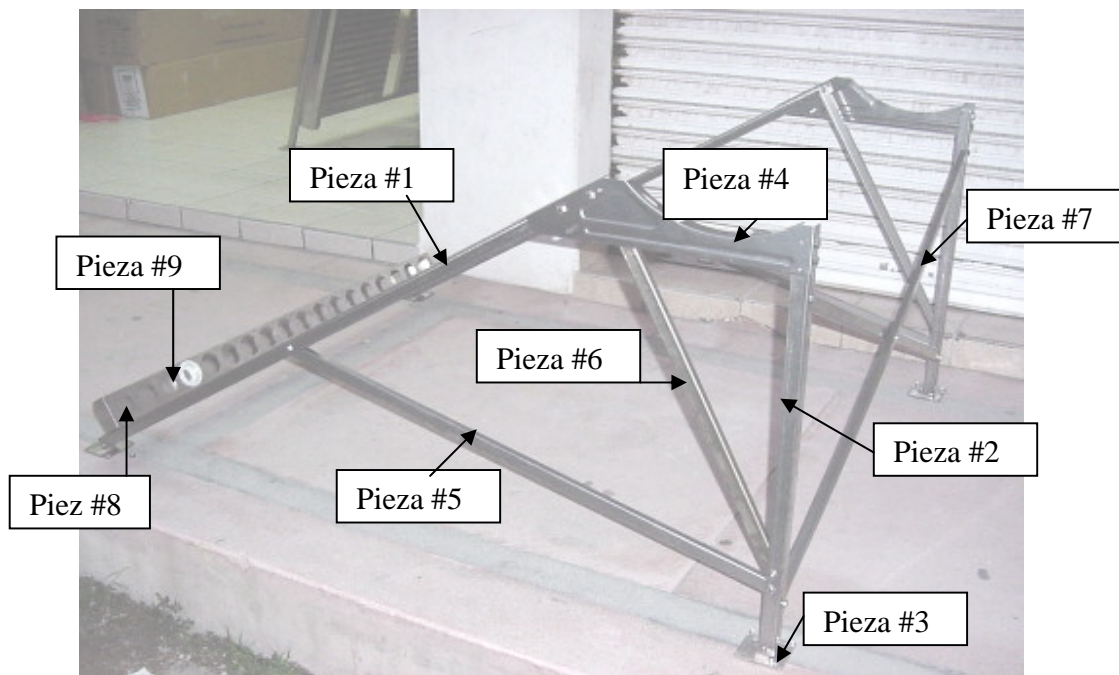
If you live in an area where the water contains quite sand it is recommendable to install a water conditioner CLEARWAVE™, not only for the Solar system, but also for all your water system, and domestic machines. It can be bought in this company

The solar system consists in 4 boxes with the following components

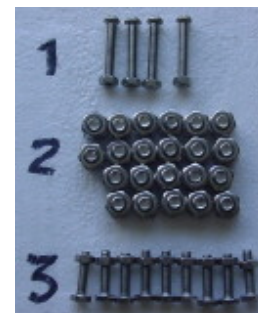
Box 1: Stainless steel mark
 Box 2: Stainless steel tank
 Box 3: Stainless steel sun reflectors
 Box 4: vacuum tubes

Box 1: Mark: Split the components for size order. There are right side and left side components
 The components 1 have to be orientated with the 7 holes looking inside of the mark (to install the sun reflectors)

| Quantity | Description | Component | Quantity | Description | Component |
|----------|-------------------|-----------|----------|-------------------------------|-----------|
| 2 | Bar of 147 cms | #1 | 2 | Bar of 136 cms | #7 |
| 2 | Bar of 72 cms | #2 | 1 | Base to fix the tubes | #8 |
| 4 | Base for the mark | #3 | 18 | Plastic base to fix the tubes | #9 |
| 2 | Tank supports | #4 | 1 | Plug | #10 |
| 2 | Bar of 69 cms | #5 | 18 | Black rings | #11 |
| 2 | Bar of 103 cms | #6 | 1 | Bolts and nuts | |



Component 10: plug
 If a tube gets broken and has no refraction, take out the tube and introduce the plug in the broken tube hole, until you buy another one from the supplier



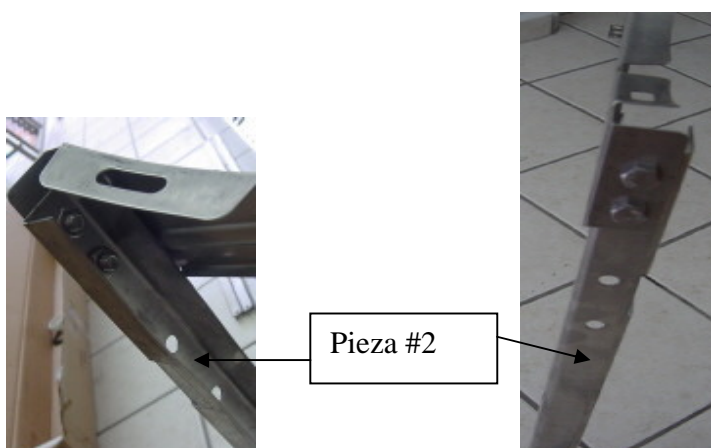
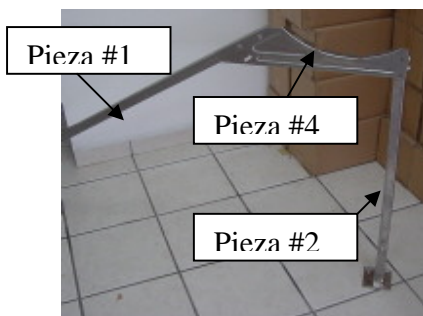
Step 1: assembly the mark

A. Assembly component number 3 with the components number 1 and 2

Use bolt sort 1
TIPO #1



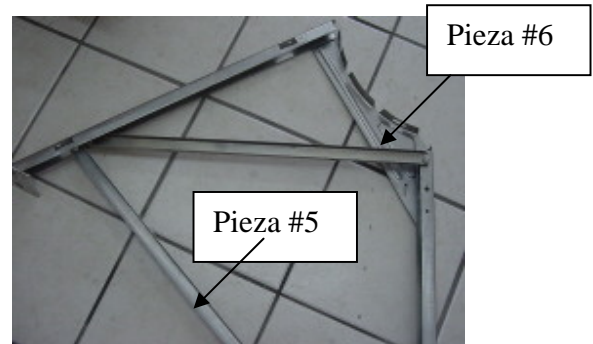
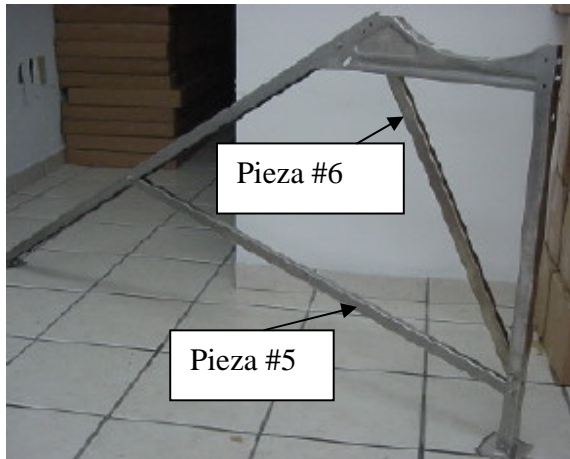
B. Assembly component number 4 with components number 1 and 2



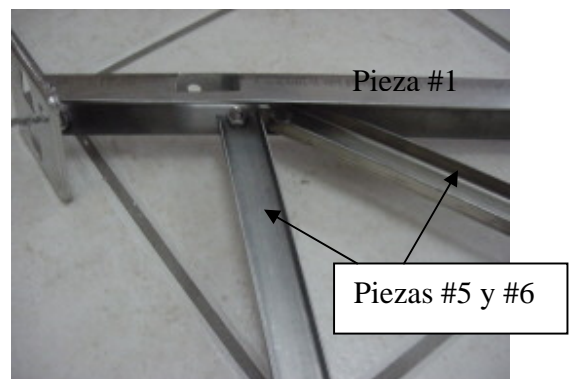
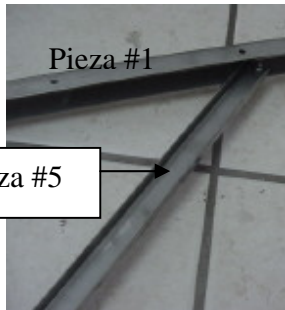
Use bolts sort 2
TIPO #2

Assembly components number 5 and 6 with the components 1 and 2

Use bolts sort 2
TIPO #2

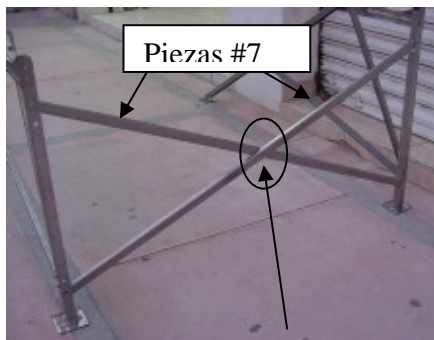


DETALLE:



D: Assembly components 7 and components 2

Use bolt sort 2
TIPO #2

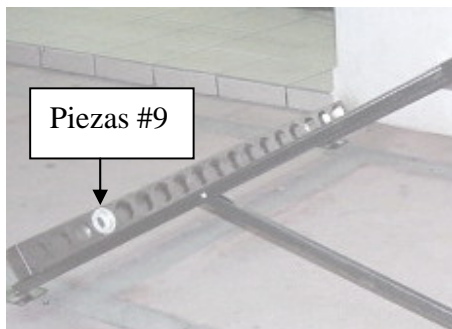
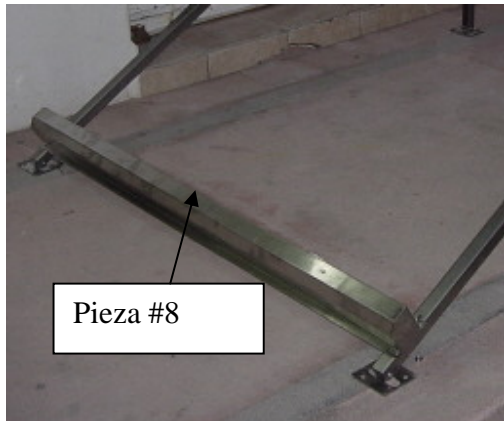


Use bolt sort 3
TIPO #3



E: Assembly component 8 and components 1

Use bolts sort 2
TIPO #2

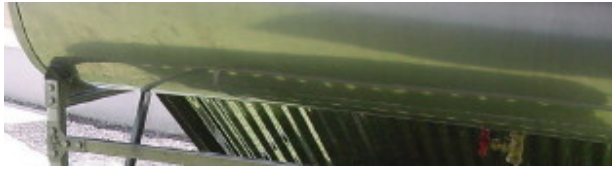


Step 2- Install the reflecting components



Use bolts sort 3

Step 3. Install the tanks into their supports



Step 4. Position of the system

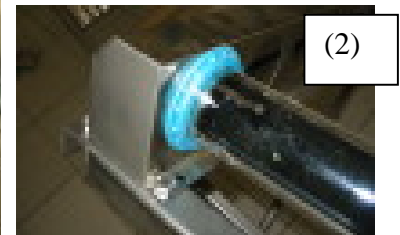
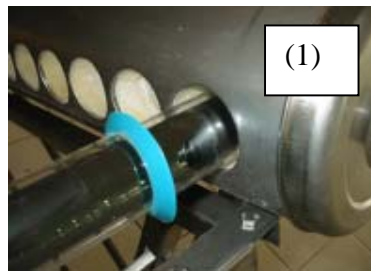
Be sure that all the bolts are tightened and the system is totally rigid. Now you can orient the system. The best direction is south. Avoid shadows on the system

The system requires a solid base, because the system weight is 170 Kg when it's full of water. Be sure that the system is horizontal. Fix the 4 bases of the system

Step 5. Collecting tubes installation

Take a tube out of the box carefully

Take out the tube aprox 20 cms. Apply the liquid concentrated soap on the top of the tube (10 cm aprox) and into the white hole into the tank



(1) Introduce carefully the tube into the hole of the tank and turn slowly in the watch direction, until the tube gets inside, aprox 5 cms and introduce it turning into watch opposite direction until it gets strongly fixed into its base (2).

3- Move the black component to seal the tube with the tank

4. Put some Teflon at the tube where the hot water goes out (downside of the tank) and install the spherical key

5. Introduce water into the tank to check if it doesn't escape. Then fill it until $\frac{3}{4}$ of the total

6 If the system is empty and the sun warms it for more than 30 minutes, don't fill it because the cold water could break the tubes because of the drastic temperature change. Wait until night to fill it