

TP4-ENERSOL-TD

single function

Flap tilting mechanism

Mounting instructions

Pre-mounted parts



1. Water outlet manifold pre-insulated on brackets and u-shaped rail.

2. TP4 Solar Panels TD

3. with straight coupling to water outlet manifold

4. and angled coupling on to water inlet manifold

5. Flap tilting mechanism

6. Water inlet manifold pre-insulated on brackets and U-shaped rail.

7. Linear motor fixture pre-mounted with a protective covering plate

Mounting basement



The manifold brackets are premounted onto U-shaped fixing rails of dim. 28x19 mm and tightened to the rail with square plate-nuts M8.

The mounting rails can be fitted on to wooden beams, on to steel hollow beams, on to concrete beams and even onto primary base of fixing rail construction.

Mount outlet manifold



The water outlet manifold can be either single sided or twin sided (like on picture)

The pipe fixtures are dimension 1/2'' with rubber insulation stabilized onto endless screws 8 mm with a locking nut on top and two square plate-nut towards the U-shaped fixing rails .

The mounting rails can be fitted on to wooden beams or on to steel hollow beams or even onto primary base of fixing rail constructions.

Mount outlet manifold



The water outlet manifold can be either single sided or twin sided (like on picture)

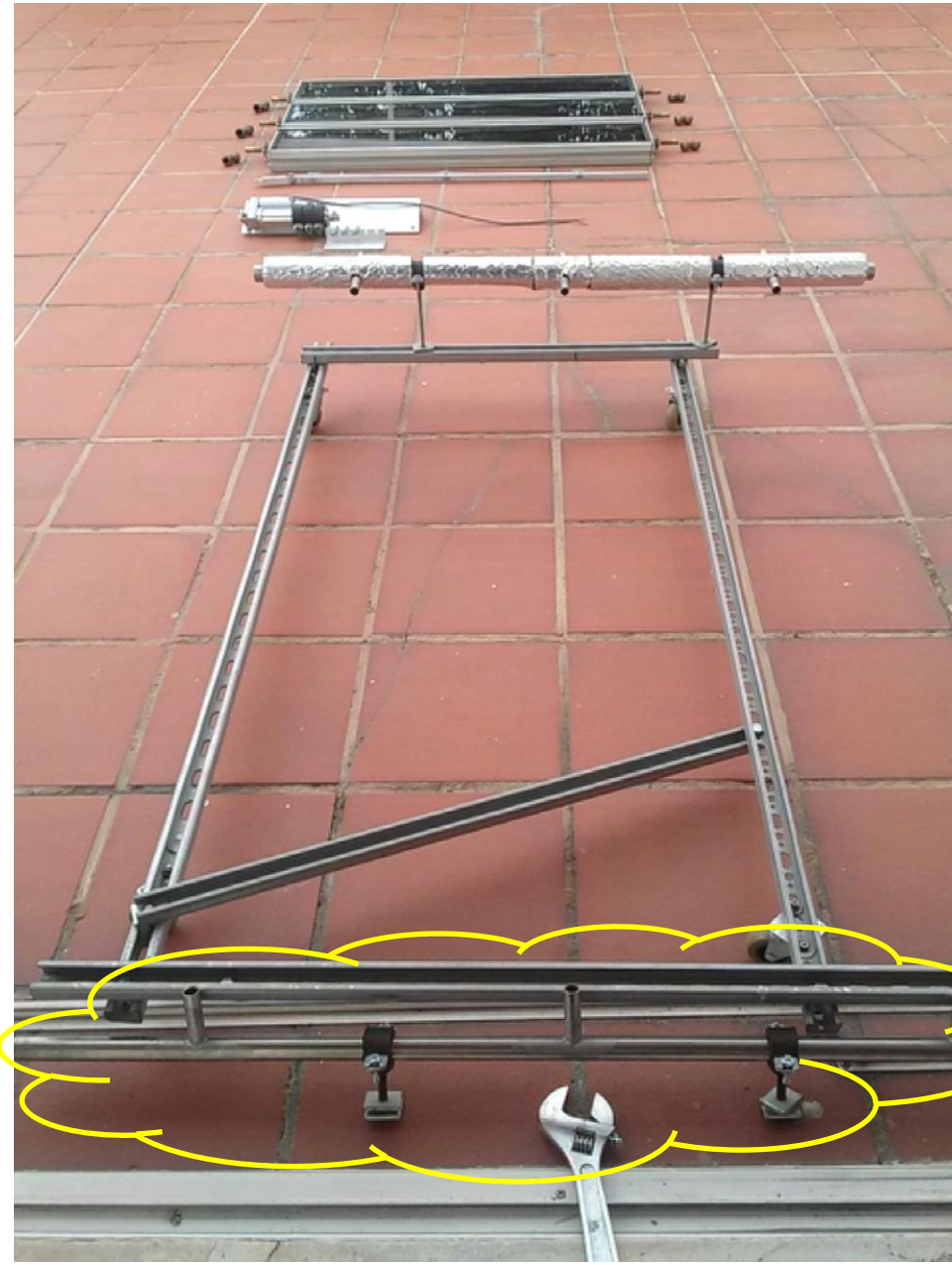
The pipe fixtures are dimension 1/2'' with rubber insulation stabilized onto endless screws 8 mm with a locking nut on top and two square plate-nut towards the U-shaped fixing rails .

Manifold in final position

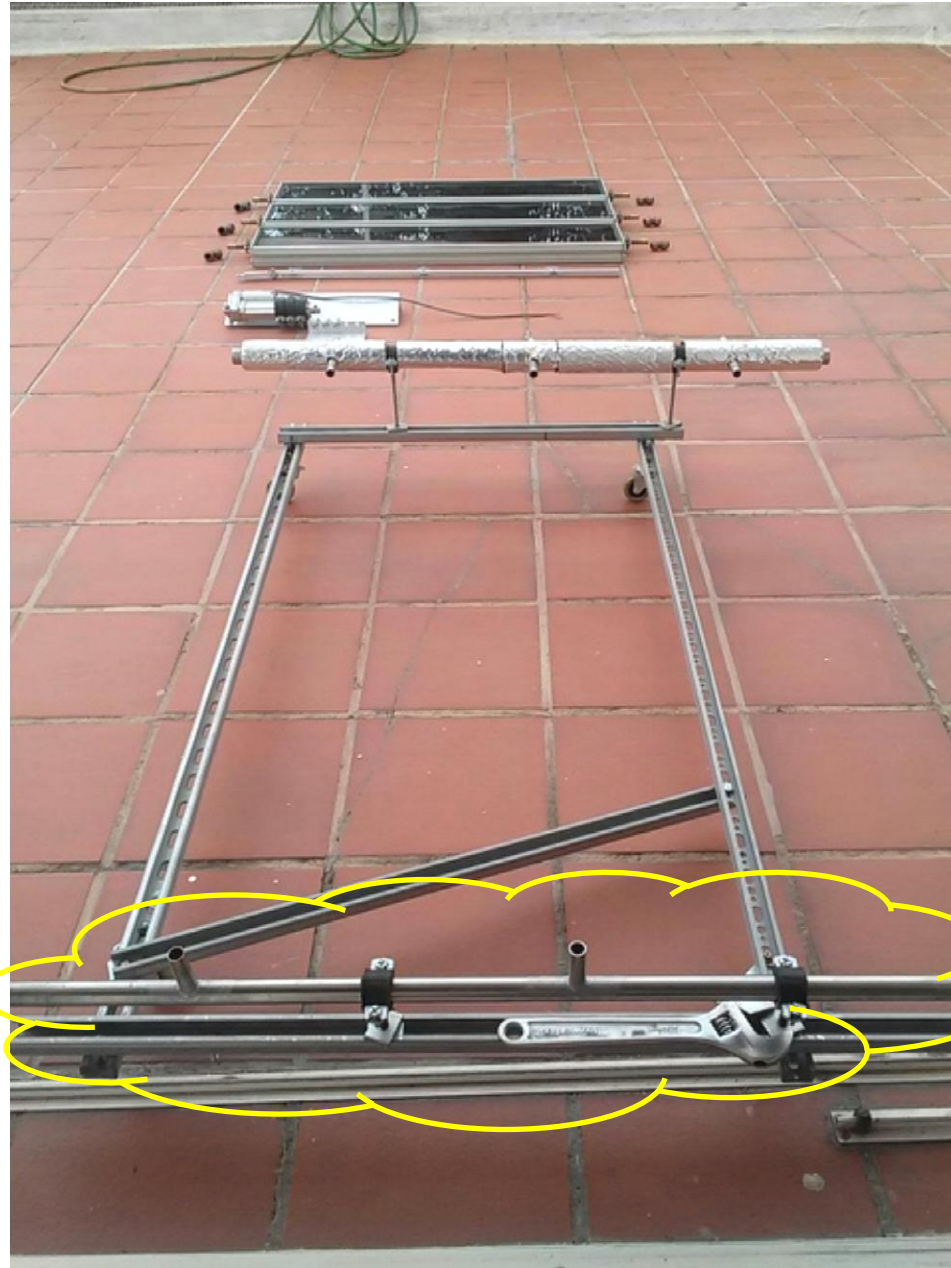
Mount inlet manifold

The water inlet manifold is always single sided with vertical outlet pipes 15 mm

The pipe fixtures are dimension 1/2" with rubber insulation stabilized onto endless screws 8 mm with a locking nut on top and two square plate-nut towards the U-shaped fixing rails .



Mount inlet manifold



The water inlet manifold is always single sided with vertical outlet pipes 15 mm

The pipe fixtures are dimension 1/2" with rubber insulation stabilized onto endless screws 8 mm with a locking nut on top and two square plate-nut towards the U-shaped fixing rails .

Inlet manifold in final position

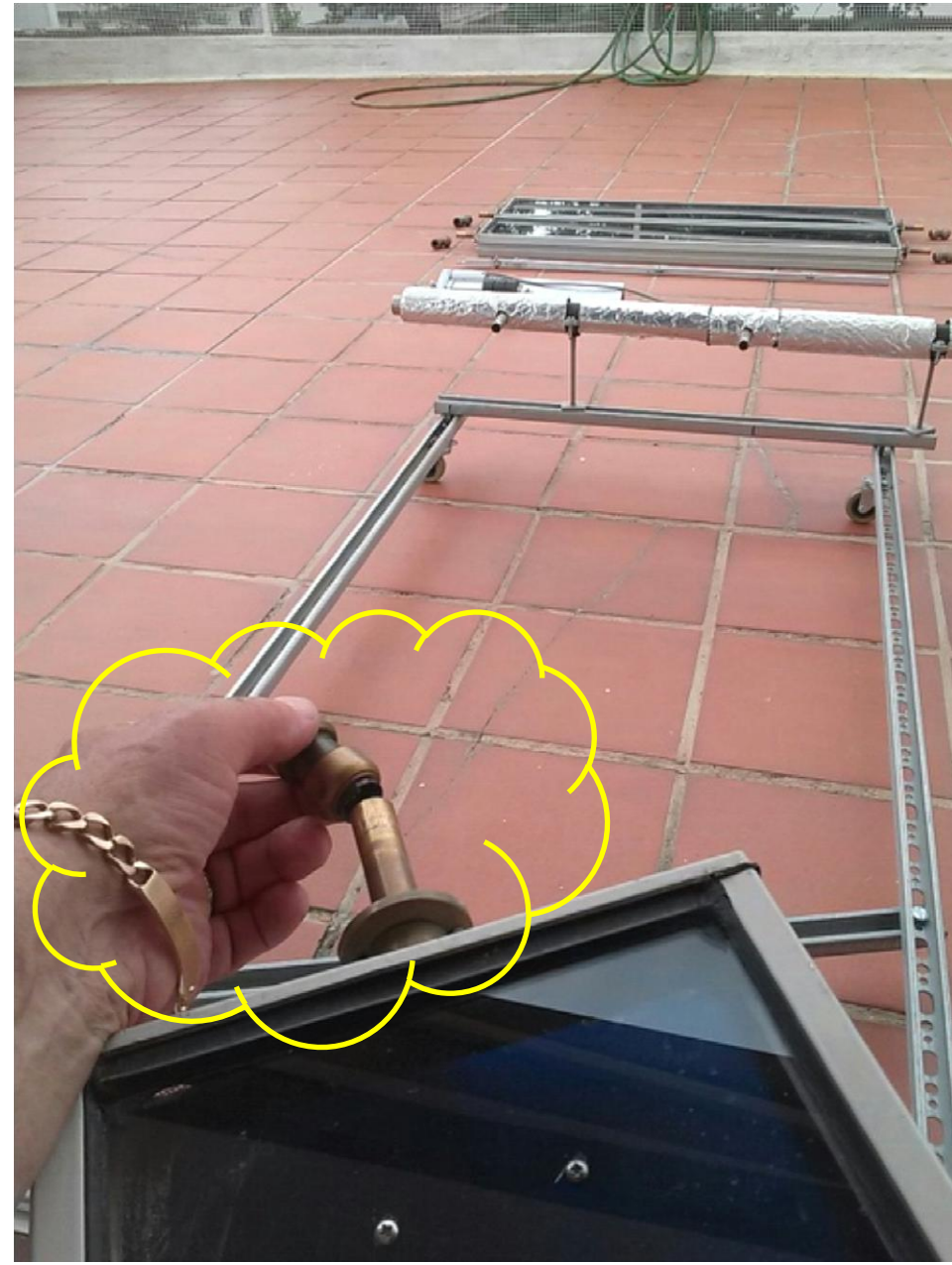
Mount click couplings

The 15 mm straight couplings are fitted onto the solar panels brass exit pipe

Choose the panel side without 4 mm screws on the round plate

The click couplings are symmetric and have no flow direction requirements.

Make sure of insert length and always mark its required terminal position



Mount click couplings

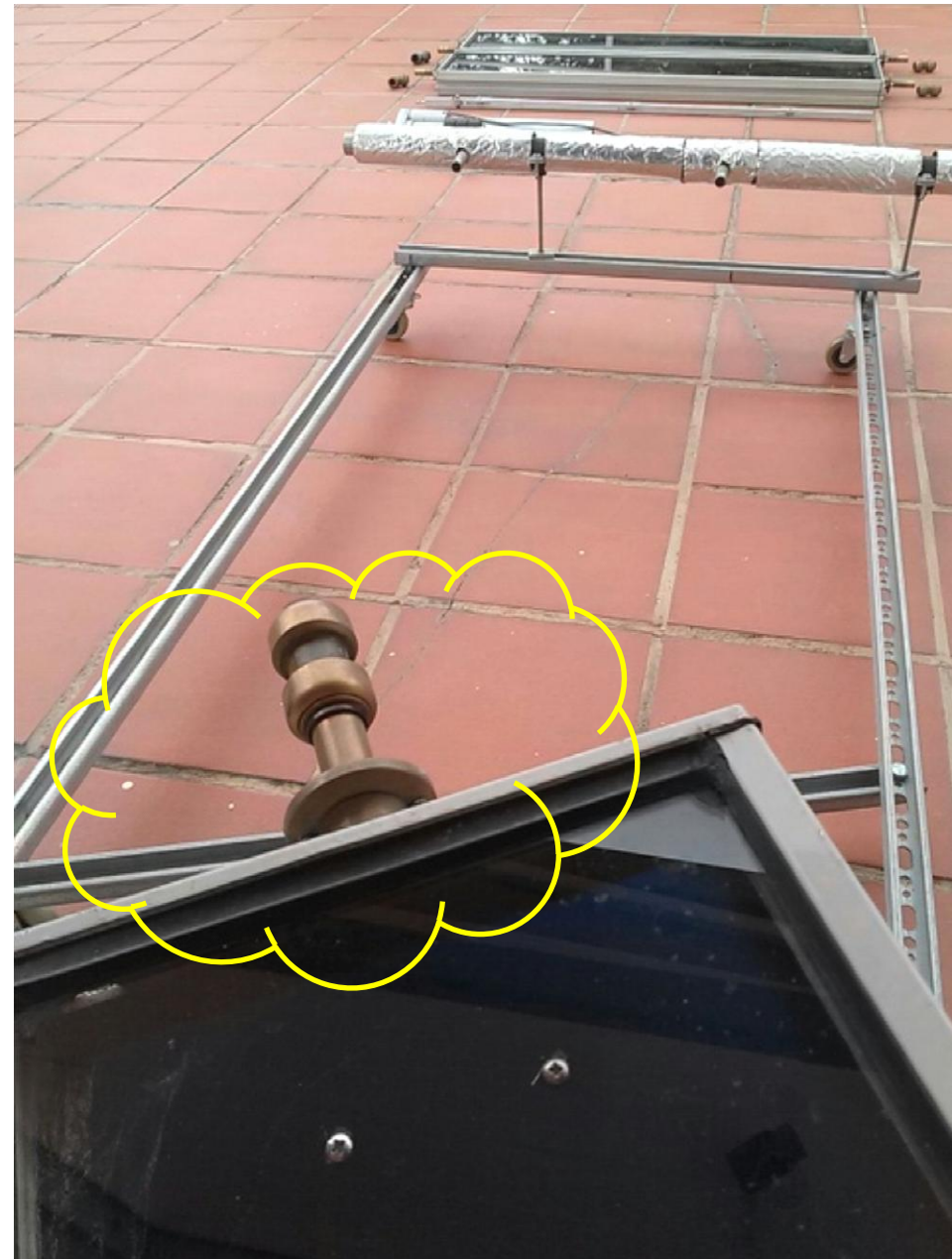
The 15 mm straight couplings are fitted onto the solar panels brass exit pipe

Choose the panel side without 4 mm screws on the round plate

The click couplings are symmetric and have no flow direction requirements.

Make sure of insert length and always mark its required terminal position

Straight coupling in final position



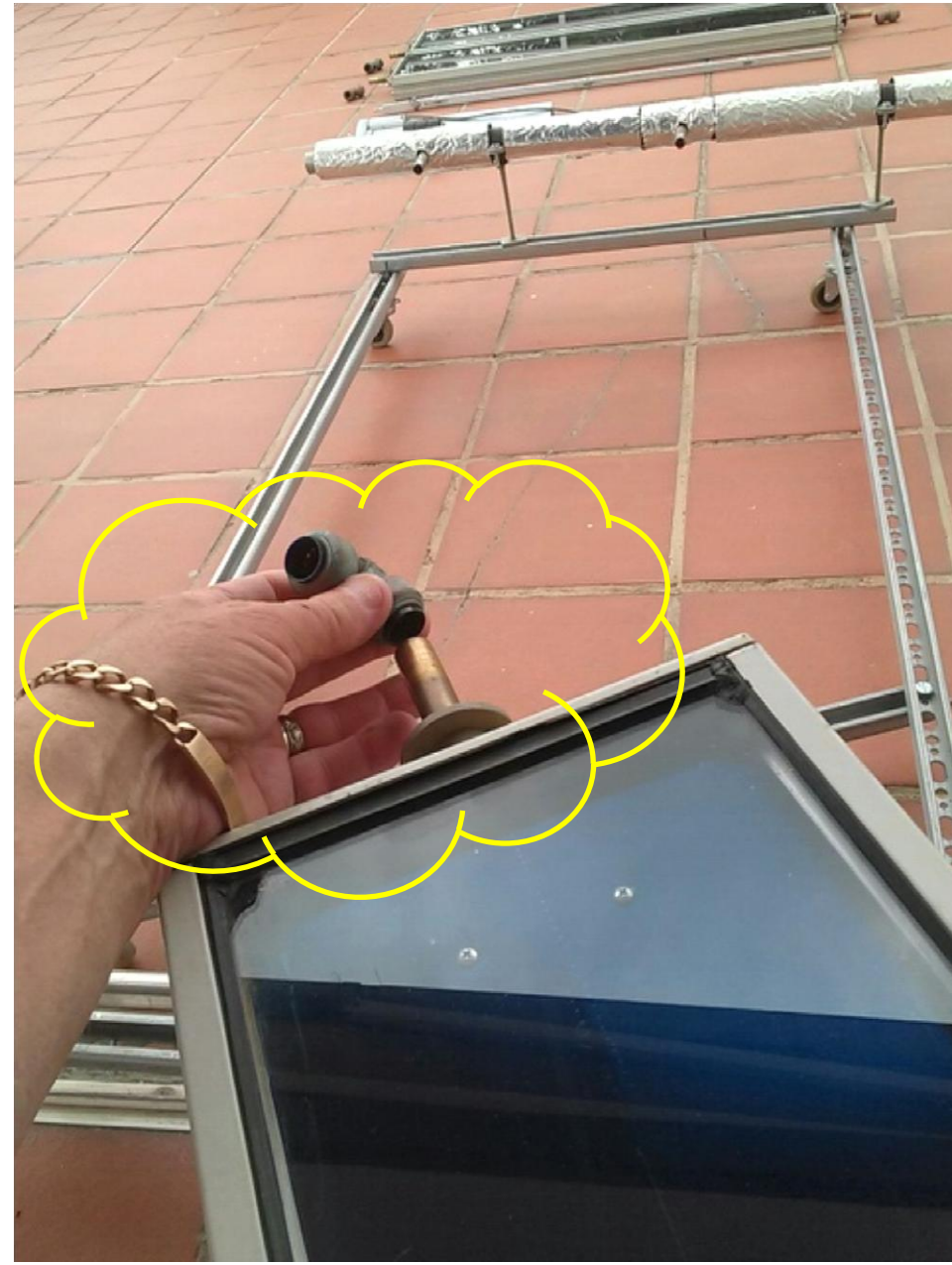
Mount click couplings

The 15 mm angled couplings are fitted onto the solar panels brass exit pipe

Choose the panel side with 4 mm screws on the round plate

The click couplings are symmetric and have no flow direction requirements.

Make sure of insert length and always mark its required terminal position



Mount click couplings

The 15 mm angled couplings are fitted onto the solar panels brass exit pipe

Choose the panel side with 4 mm screws on the round plate

The click couplings are symmetric and have no flow direction requirements.

Make sure of insert length and always mark its required terminal position

Angled coupling in final position



Mount Solar Panels



Mark the insert length on the SS-pipe to make sure that coupling is fully inserted

Push the panel and the 15 mm straight couplings onto the pipe exit of the outlet manifold

Mount Solar Panels

Mark the insert length on the SS-pipe and make sure that coupling is fully inserted

Push the panel and the 15 mm angled couplings onto the pipe exit of the inlet manifold

Check that the round plate with the two screw is on the inlet side.



Mount Solar Panels

Continue the mounting of the remaining solar panels



Mount Solar Panels



Make sure that the round plates with the two screws always is on the inlet side.

Mount Tilting mechanism

Bring the flap tilting mechanism into place positioning the connector towards the motor position.



Mount Tilting mechanism



Remove the 4 mm locking nuts and pass the flaps onto the screws

Replace the 4 mm locking nuts and tighten securely

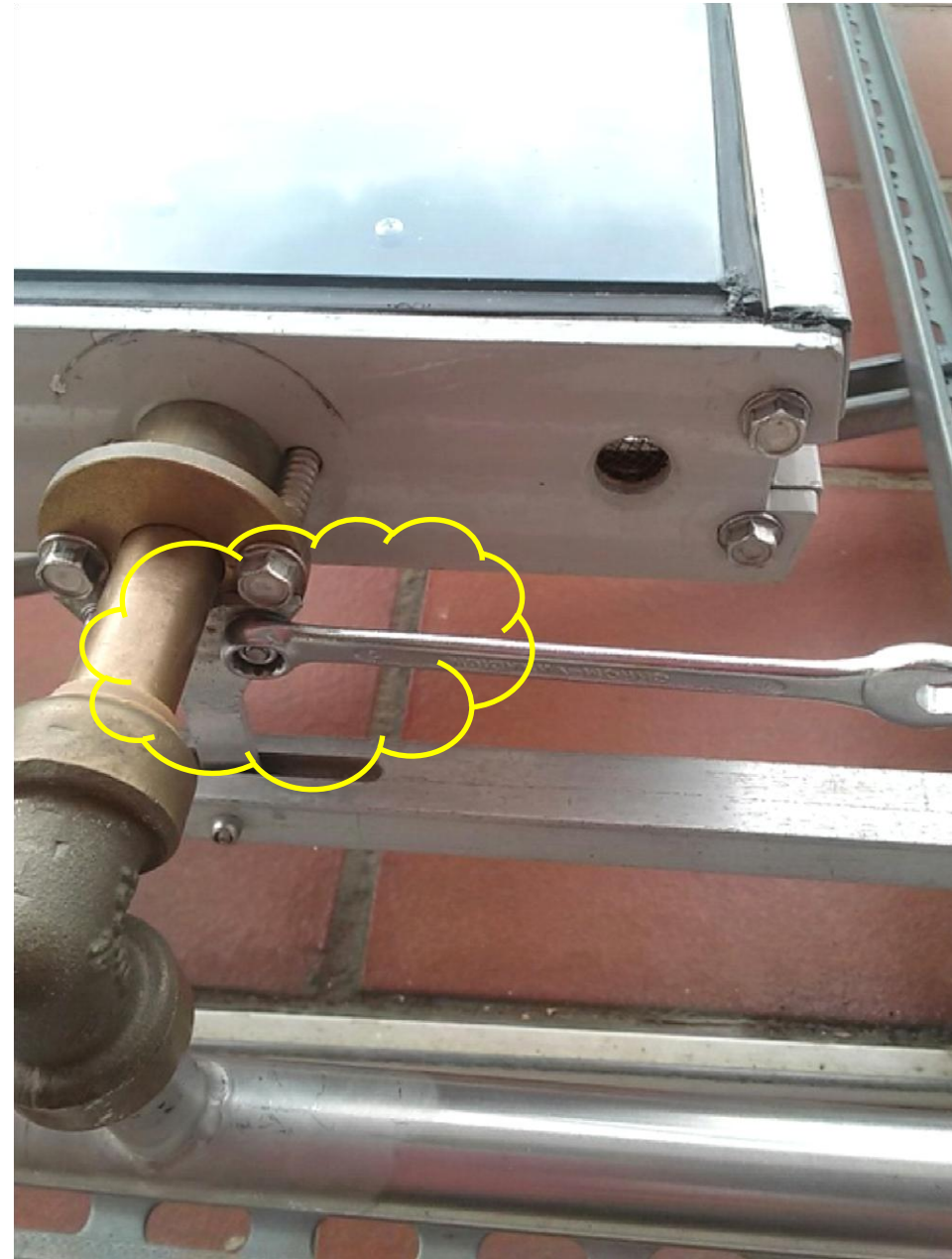
Mount Tilting mechanism

Repeat the positioning of flaps onto the screws of all panels



Mount Tilting mechanism

Secure flap mechanism by tightening the locking screws securely by a 7 mm key



Mount Tilting mechanism

Secure flap mechanism by tightening the locking screws securely by a 7 mm key

Final position of flap mechanism



Mount motor fixture

Bring the motor fixture into position

Loosen the 8 mm screws to release lightly the three square fixing plates

The motor must be in its terminal closed position when mounted



Mount motor fixture

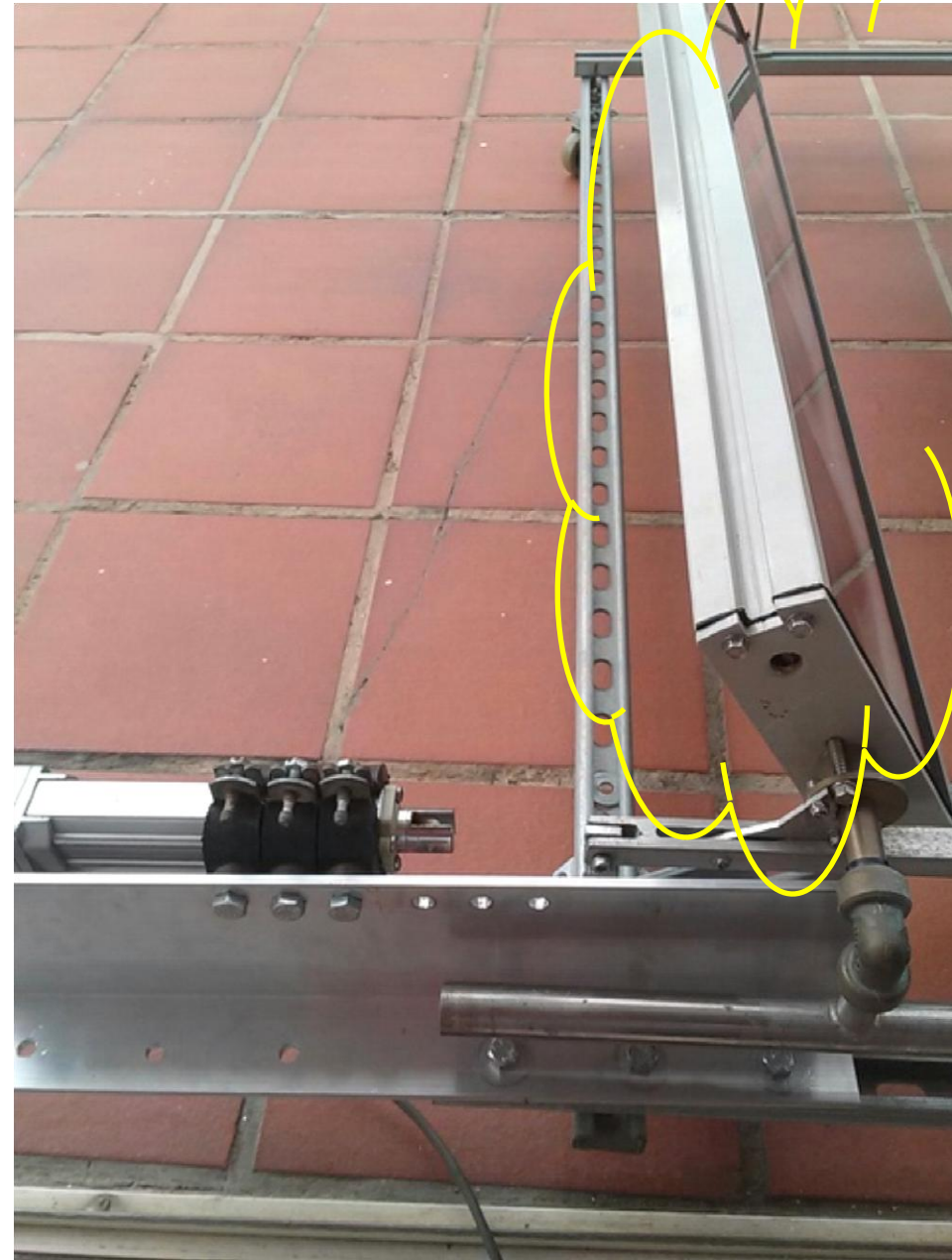
Pass the fixture and its square nuts in to the U-shaped fixing rail and tighten lightly the three 8 mm screws to hold in place



Mount motor fixture

Turn all the panels with their functional surface away from the motor

Thus the flap mechanism moves to its closed end position.



Mount motor fixture

Place the flap mechanism connector in line with the closed linear motor connector.

If necessary move the motor fixture back or forth in order to fit exactly

CARE never change the tilting angle of the solar panels.

CARE they must be in their terminal end position before connected to the motor



Mount motor fixture

When both connecting pieces are in line with each other then you pass the 6 mm screw through the hole.



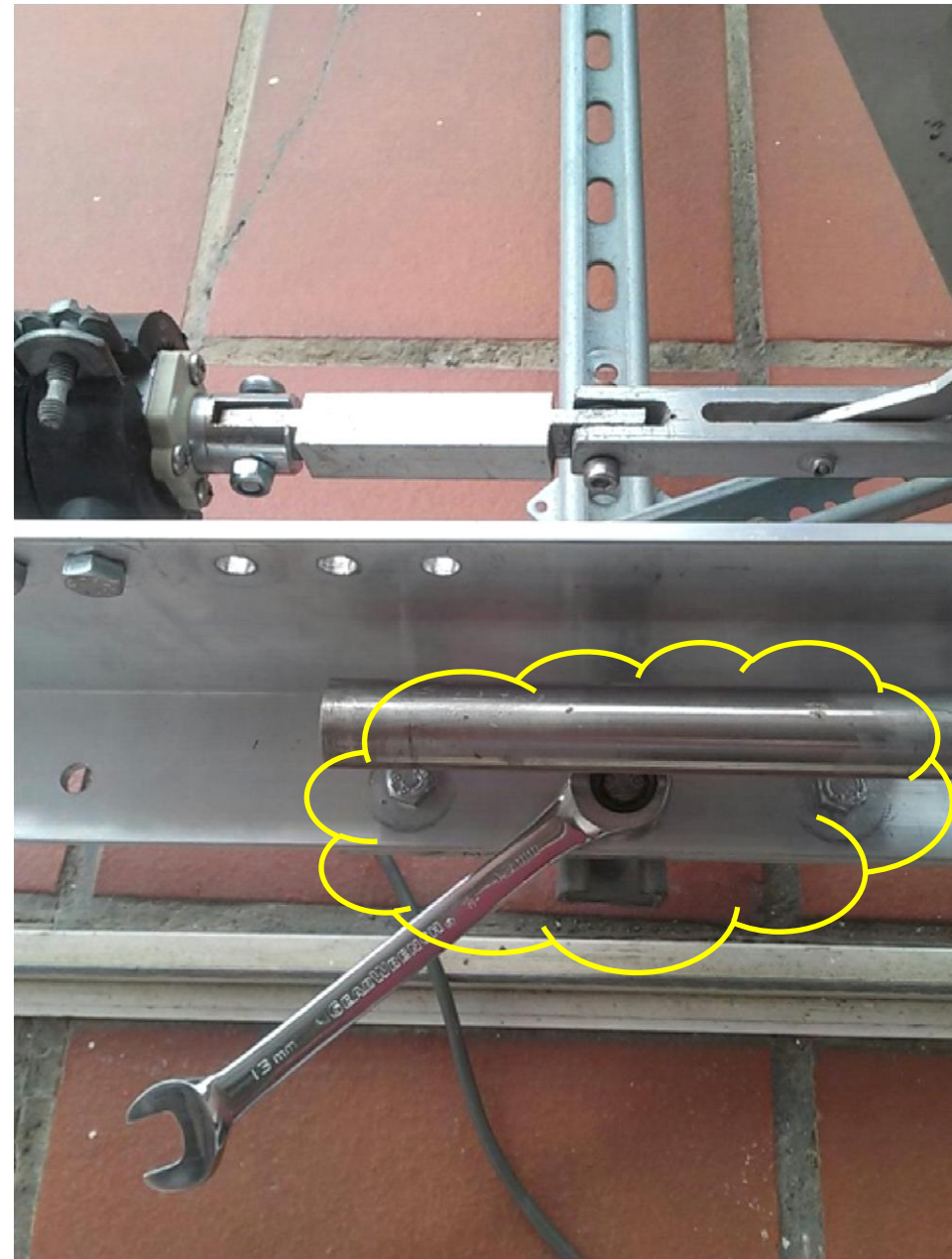
Mount motor fixture

Put on the 6 mm locking nut and tighten securely with a 10 mm key



Mount motor fixture

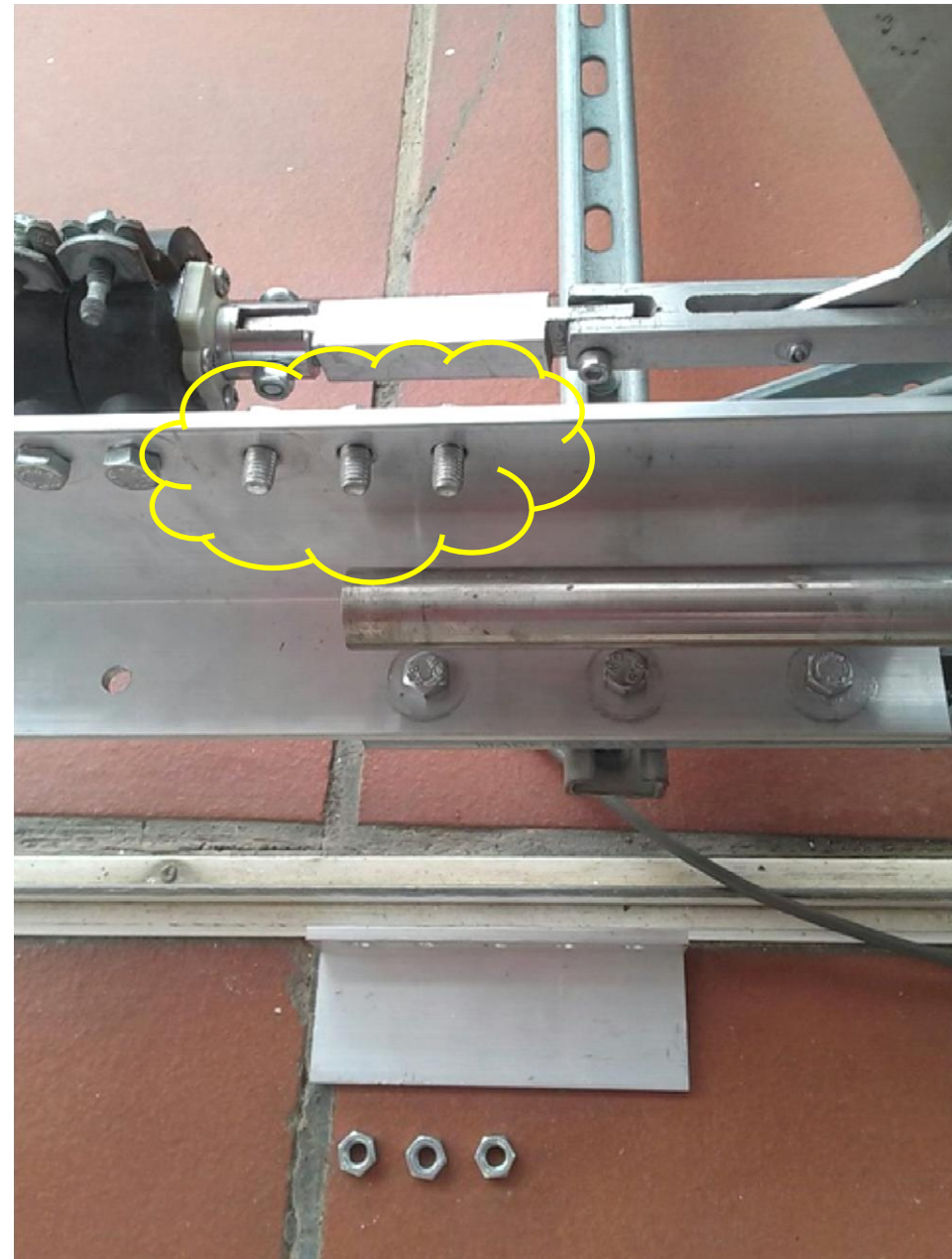
Straighten up the fixture to be in line with the U-shaped rail and tighten the three 8 mm screws with a 13 mm key



Mount motor fixture

Bring the top cover into position

Pass the three 8 mm screws on top



Mount motor fixture

Bring the top cover into final position

Pass the three 8 mm nuts and tighten well with a 13 mm key



Mount motor fixture

Picture shows the final view of the motor fixture in final position



TP4 – TD solar panels



Thank you for your time watching our mounting instructions