

These instructions detail the installation and use of the E-Solar Pro from OzRoll.

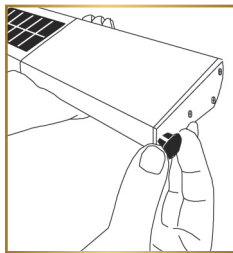
IMPORTANT

- The E-Solar Pro must only be installed on shutters using only DC tubular motors which have built in limit switches.
- To protect the wiring from the moving curtain a safety plate must be used on E-Solar Pro installations.
- Ozroll recommends the E-Solar PRO is installed facing a northerly direction as it is crucial for the panel to receive a minimum average of one hour direct sunlight per day to maintain charge.

1. When the panel is initially unpacked it will be in deep sleep mode and needs to be woken by exposure to direct sunlight for more than 5 seconds. It will then be ready for pairing to an E-Trans transmitter.

2. Pairing The E-Trans Transmitter and The E-Solar Pro.

To pair the E-Solar Pro with an E-Trans transmitter use the yellow magnet supplied with the product. Hold this magnet in the area indicated in the diagram for more than 5 seconds. Three clicks should be heard. The system will now be in programming mode for **60 seconds**.



Next, press the stop (i.e. middle) button on the E-Trans transmitter within 60 seconds. When the E-Trans and E-Solar Pro pairing is successful three more clicks will be heard, and the receiver will then leave programming mode.

Additional E-Trans transmitters can be paired with the E-Solar Pro by repeating the above procedure.

Up to 5 transmitters can be paired with one E-Solar Pro unit.

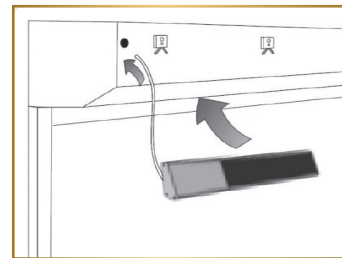
To operate the motor push and hold the up or down button on the E-Trans transmitter for one second.

The E-Solar Pro has a different response time than an E-Port RF Controller. A longer than normal button press on the E-Trans transmitter is required for the E-Solar Pro unit. For instructions on the E-Trans transmitters, see the separate manual.

To delete all transmitter pairings, hold a magnet in the position shown for approximately 20 seconds. Six clicks should be heard. The system is in deep sleep mode now and needs to be exposed to daylight to re-activate it.

3. Installing E-Solar Pro Mounting Clips.

Remove the mounting clips from the rear of the E-Solar Pro, and, using screws or rivets, attach them to the installation surface. This can be the roller shutter head box, nearby wall or roof (for good exposure to sunlight).



If mounted on the head box or wall it must be in a position that ensures that the E-Solar Pro will receive at least one hour of direct sunlight per day. In these instances the E-Solar Pro should also be installed close to the edge or beside the head box, on the same side as the motor.

This will enable easier routing of the wiring through the endplate to the motor. This positioning will also ensure that the wiring can be kept secure behind the safety plate.

Drill a hole large enough for the wiring and terminals to pass through (say 10mm diameter). Ensure that the hole is positioned on the front or side of the endplate in such a position that it will be covered by the E-Solar Pro when it is fitted to the mounting clips.

Ensure the panel is not shaded and is installed facing towards the North. On average a minimum of one hour of direct sunshine per day is required to maintain charge.

E-SOLAR PRO 1 INSTALLATION INSTRUCTIONS



1. Connect the E-Solar Pro to The Motor

Tubular DC motors are usually supplied with a 2m cable. For installations where the E-Solar Pro is close to the head box of the shutter then this 2m cable may be excessive.

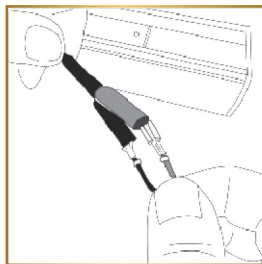
In this instance the cable will need to be cut and re-terminated using 4.5mm female spade terminals.

Ensure enough cable is left to enable the removal of the E-Solar Pro and/or the Bottom Plate of the shutter.

If the E-Solar Pro is to be installed away from the shutter then the 2.5m Loom Extension (15.910.082) may be required.

For a **right hand** side installation:

- Connect the RED wire from the E-Solar Pro to the RED wire from the motor.
- Connect the BLACK wire from the E-Solar Pro to the BLACK wire from the motor.



For a **left hand** side installation:

- Connect the RED wire from the E-Solar Pro to the BLACK wire from the motor.
- Connect the BLACK wire from the E-Solar Pro to the RED wire from the motor.

Ensure that good terminal connections are made by tugging on the two wires.

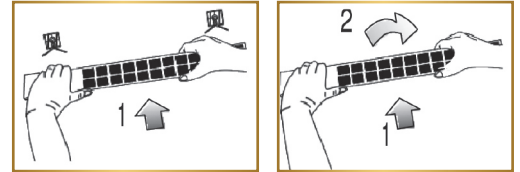
Activate the heat shrink tube on the cable terminals with hot air gun or a cigarette lighter. **Caution – burning hazard.**

If required for cable routing carefully press the cable into the slot in the connector on the back of the panel. If the cabling needs to pass one of the mounting clips then it can be routed behind the legs of the clip. Any spare cable can be pushed back into the head box in the area behind the safety plate.

Attaching the E-Solar Pro to the Mounting Clips

To **mount** the E-Solar Pro, engage the legs of the clips in the channel on the back of the panel and push up.

To **remove** the panel, push the panel up to compress the legs of the clips. Then rotate the top of the panel away from the mounting surface.



2. Trouble Shooting

- If the motor operates in the opposite direction to the buttons being pressed on the E-Trans transmitter. This is solved by switching the red and black wires connecting the E-Solar Pro to the motor.
- The battery in this unit can only be charged by the solar panel. If the installed position of the unit does not allow sufficient sunlight to keep the battery charged it will eventually go flat. If this occurs the unit will need to be removed from the installed position and placed directly in the sun.

3. Points To Note

- The system will be deactivated at temperatures of $> 60^{\circ}\text{C}$.
- The system will be deactivated at temperatures of $< -10^{\circ}\text{C}$.
- Do not open or drill any part of the E-Solar Pro – This will void any warranty!
- Protect the E-Solar Pro from water other than rain and snow.
- Do not expose the E-Solar Pro to temperatures higher than 80°C .
- Protect the E-Solar Pro from exposure to magnetic fields.
- Clean the solar panel regularly with a moist cloth.