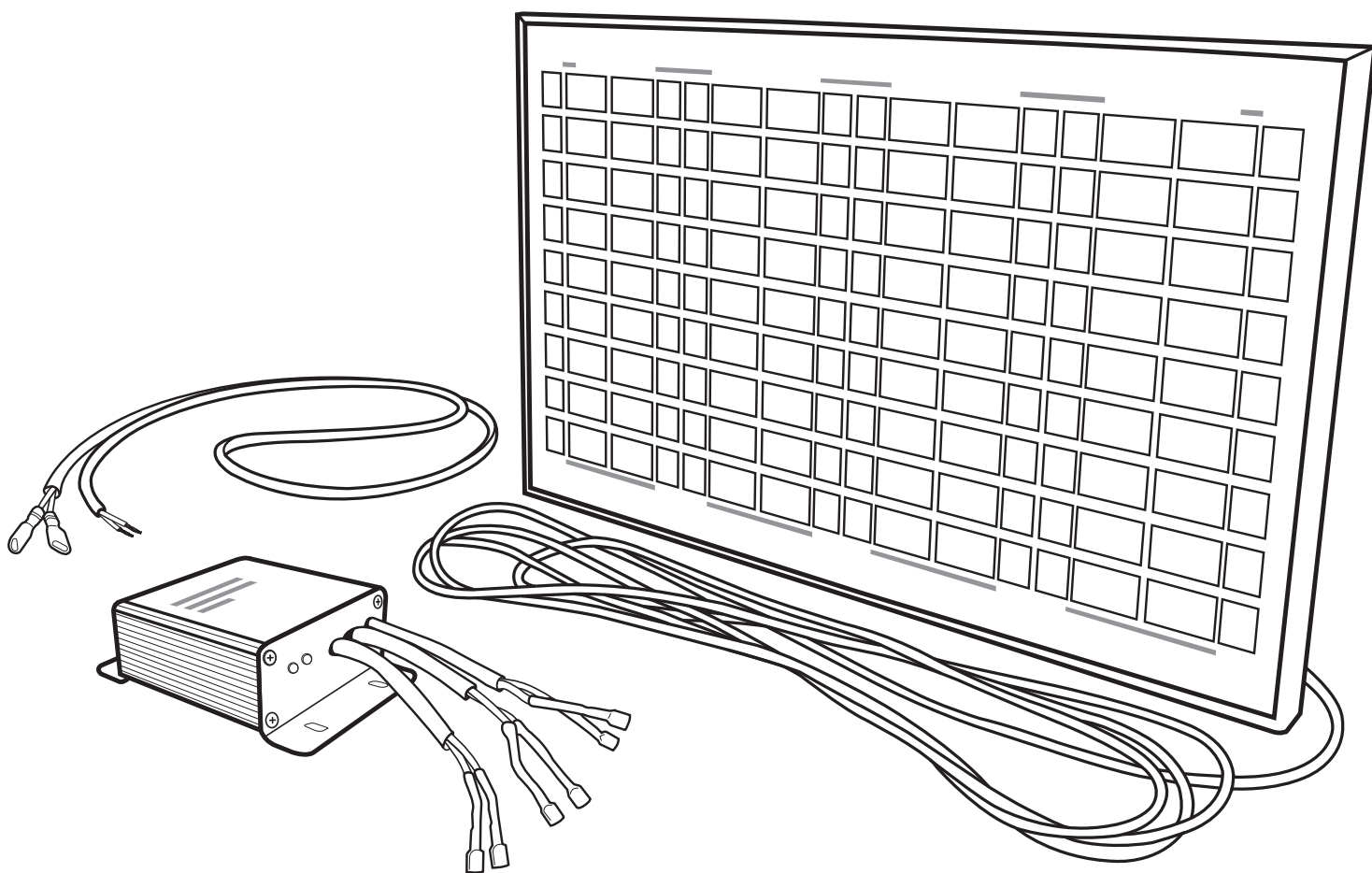


30W Solar Power Kit

FOR GATE AUTOMATION KITS

Instructions For Model: GTR097



- Please read and follow all warnings, precautions and instructions before installation and use
- For residential use only
- Save this manual

This kit is designed to convert Richmond Wheel & Castor Co Gate Automation Kits to be powered by Solar Power.

Kit Contents:

1 x Solar Panel with 5m cable and mounting plates

1 x Solar Regulator

1 x 1m Load cable

Note: Battery box and batteries are sold separately.

For connecting to GTR064, GTR100 or GTR058:

You will need a Battery Box and 2 x 12V 12Ah batteries.

Instructions:

1. Mount Solar Panel as per instruction page provided, ensuring that the distance is less than 5mtrs from the battery box.
2. Open the battery box and place the 2 x 12V 12Ah batteries inside, ensuring firm fit with fasteners provided. Mount the battery box less than 1mtr from the control box.
3. Fasten the Solar Regulator with the screws provided
4. Connect the 12V batteries to the BAT connectors of the Solar Regulator
5. Feed the 5m cable from the Solar Panel through the gland at the bottom of the battery box, and connect it to the SOLAR connectors of the Solar Regulator (making sure you connect red to red, and yellow to yellow)
6. Feed the Load cable through the gland of the battery box and connect to the LOAD connectors of the Solar Regulator (making sure you connect red to red, and yellow to yellow)
7. Feed the other end of the Load cable through the gland of the control box, and connect to the BAT+/- terminals of the PCB, as per gate motor manual (making sure you connect red to red, and yellow to yellow)
8. Retighten all glands ensuring cables are secure, then close battery box.

For connecting to GTR099:

The control box should have 2 x 12V 7Ah batteries already installed.

Instructions:

1. Mount Solar Panel as per instruction page provided, ensuring that the distance is less than 5mtrs from the control box.
2. Open the GTR099 control box and fasten the Solar Regulator with the screws provided.
3. Disconnect the 12V batteries from the BAT+/- terminals of the PCB, and connect to the BAT connectors of the Solar Regulator. (blue to yellow, brown to red)
4. Feed the 5m cable from the Solar Panel through the gland at the bottom of the control box, and connect it to the SOLAR connectors of the Solar Regulator. (blue to yellow, brown to red)
5. Connect one side of the Load cable to the LOAD connectors of the Solar Regulator, and the other side to the BAT +/- terminals of the PCB, as per gate motor manual. (blue to negative, brown to positive)
6. Retighten gland and ensure all cables are secure, then close control box.

Notes:

Maximum current of the load or the solar panel should not exceed 10A.

Solar Regulator LED summary:

'Charge' LED is ON when the battery is charging and it is OFF when the battery is fully charged.
'Over-Discharge' LED is ON when the battery is over-discharged and it is OFF when the battery can power the gate opener normally.

Troubleshooting:

Problem	Solution
Gate Motor does not turn on	Check Solar Regulator LEDs. If 'Over-Discharge' light is on, battery is not receiving enough power from Solar Panel, reposition in better sunlight area.
Batteries do not hold charge through the night	Increased battery size is required.

For any assistance please contact Richmond Wheel & Castor Co on 1300 474 246

Solar Charge Controller (GTR050) Setup:

