

WAECO Fridge Power Kit – 12 volt

(Item code: RAPS12R-U2)

Installation and Operating Instructions

Mounting

1. Locate a suitable position inside the vehicle to mount the control unit. It is recommended that the unit be mounted on the same side of the vehicle as the battery.
2. Fix the mounting plate to the vehicle using the double sided tape or screws provided. Ensure the mounting position provides sufficient access for the connection cable.

Connection


The connection cable is run directly from the vehicle's battery to the control unit. An inline fuse (fitted to the cable) must be located at the battery end. It is recommended that you start the installation at the battery end. Do not fit the fuse until the wiring is complete.

1. Remove the fuse from the fuse holder.
2. Fit the positive wire (Red) to the positive (+) battery terminal with the supplied ring terminal.
3. Fit the negative wire (Black) to the negative (-) battery terminal with the supplied ring terminal.
4. Run the cable through the vehicle to the location of the control unit. When running the cable through metal panels ensure existing or new rubber grommets are used to prevent the metal panels from cutting through the cable insulation. The cable must not run near the exhaust pipe, other hot components or any moving parts.
5. Secure the cable with the supplied cable ties.
6. If there is excess cable remaining (Greater than 50cm) trim the excess cable and strip the wire sheath to expose 8mm of wire.
7. Connect the positive wire (Red) to positive (+) connection terminal on the base of the control unit.
8. Connect the negative wire (Black) to negative (-) connection terminal on the base of the control unit.
9. Slide the control unit on to the mounting bracket until there is a slight click.
10. Refit the fuse (20Amp) to the fuse holder at the battery.

Testing:

Note: The automatic controller incorporates a 30 second 'OFF' delay to prevent the unit from being affected by voltage dips. When installing the fuse or changing the pushbutton setting, wait 30 seconds for the unit to reach the correct operating mode.

1. With the vehicle's engine 'OFF' (not running), set the pushbutton to the 'ON/OFF WITH ENGINE' mode and test for voltage at the sockets. There should be no voltage. (You may need to wait 30 seconds)

 **ON/OFF** (LED Green)
WITH ENGINE

 **ON/OFF** (LED Red)
WITH VOLTAGE

2. Start the vehicle's engine, the LED should now illuminate 'Green' and there should be voltage present at the sockets.
3. Turn the vehicle's engine 'OFF', after 30 seconds the LED should extinguish and there should be no voltage at the sockets.
4. Press the button in so that it is set to the 'ON/OFF WITH VOLTAGE' mode. The LED should illuminate 'Red' and there should be voltage present at the sockets.
5. If the LED does not illuminate and no voltage is present, check the fuse. If blown, replace the fuse with an equivalent 20 Amp blade fuse. If still no voltage, check that supply voltage to unit is > 10.0V (see detail below).

Your Fridge Power Kit is now installed and ready for use.

Operation:

- With the switch in the 'ON/OFF WITH ENGINE' position power is supplied to the sockets only when the engine is running. This is for normal operation and prevents the vehicle's battery from being flattened.
- When the switch is in the 'ON/OFF WITH VOLTAGE' position the sockets receive power all the time while the battery has sufficient power to run appliances. This allows you to run appliances while the engine is not running.

WARNING – Running appliances in the 'ON/OFF WITH VOLTAGE' position could lead to the main vehicle battery being flattened to the point where the vehicle will not start.

- Two sockets are included for your convenience giving you the option of using either the 20A or 10A version depending on your needs. If you do use both sockets simultaneously, the total load must be restricted to 20A max.

<u>Mode / Voltage Settings:</u>	<u>ON</u>	<u>OFF</u>
'ON/OFF WITH ENGINE'	>13.4V	<12.8V (After 30 sec delay)
'ON/OFF WITH VOLTAGE'	>10.6V	<10.0V (After 30 sec delay)

For further information or assistance please call WAECO technical on (07) 5507 6040