

## WIRING INSTRUCTIONS FOR "POWERPART" MAINS INSTALLATION KIT

Congratulations with your purchase of the POWERPARTS PRODUCTS Mains installation kit for caravans.

Before fitting please check the contents list and follow the instructions in this leaflet very carefully

Check-list N.B. This kit does not contain a 25 metre Extension Lead

1) Consumer-unit consisting of:

25 amp-30mA Residual Current Device  
10 amp Miniature Circuit Breaker (Double pole) Polarity Test Indicator Light  
In 5 module enclosure

2) Surface Mounted Mains Inlet

3) 1-5 Metre orange cable 3 x 2.5mm<sup>2</sup>

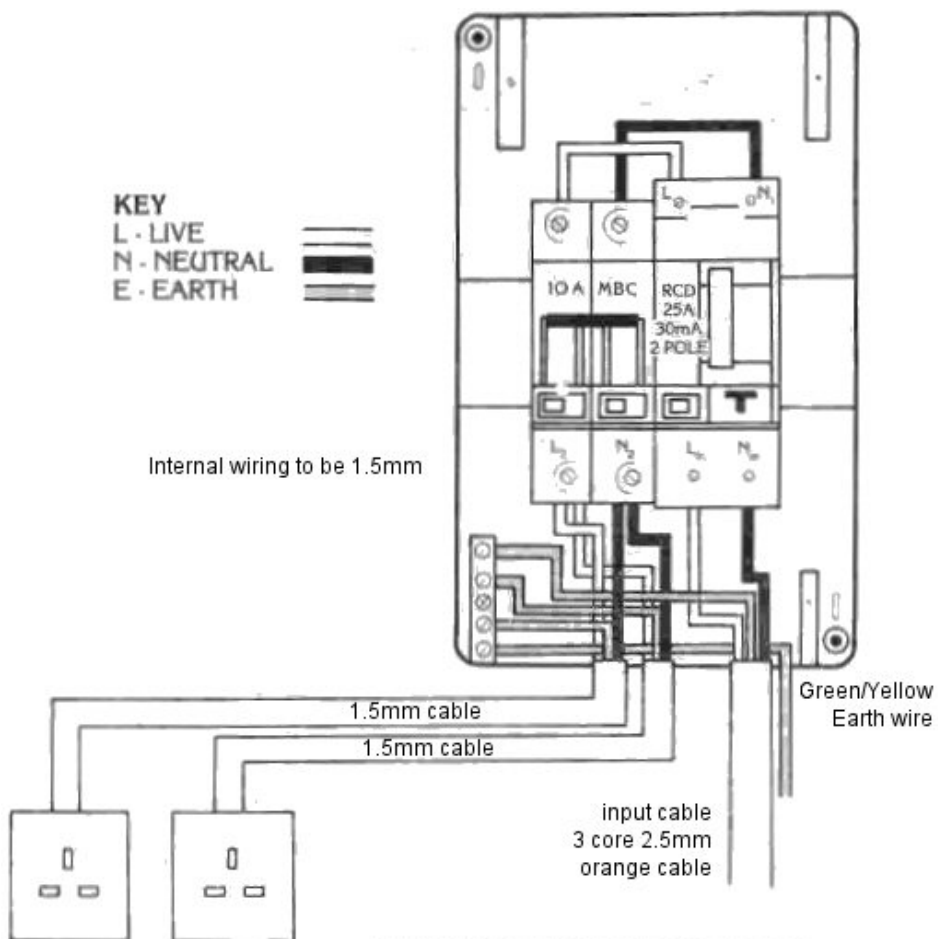
4) 1.5 Metre yellow/green 6.00mm<sup>2</sup> Earth Bonding cable

5) 6 Metre white 1.5mm flexible cable

6) 2 Single gang 13 amp switched socket incl. surface mounted boxes

7) All necessary cable clips & fixing screws:

2 white clips 11mm./8 screws 8x1"  
12 white clips 9mm  
2 screws 8x 1 1/4"



**WIRING DIAGRAM FOR MAINS  
 INSTALLATION KIT COMPRISING  
 25A 2 POLE 30mA RESIDUAL  
 CURRENT DEVICE PLUS  
 \* A DOUBLE POLE 10 AMP  
 MINIATURE CIRCUIT BREAKER**

**IMPORTANT. IF IN ANY DOUBT CONSULT QUALIFIED ELECTRICIAN**

## FITTING INSTRUCTIONS

Fit the consumer unit (item 1) by taking the front cover off by loosening the two screws. Fix the unit to the caravan wall with 2 screws 8x 1" in the required position (wardrobe, bunk etc.). Approx. 2 to 3 feet (60 to 90cm) above floor level.

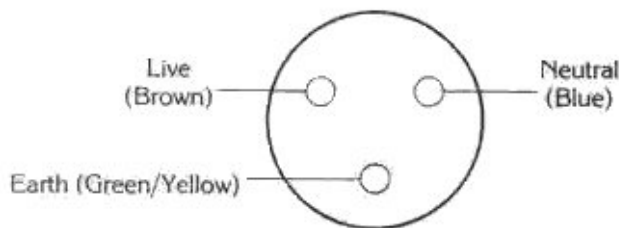
Connect the incoming cable (item 3) and the Earth Bonding cable (item 4). Drill one hole of 11 mm, and one hole of 5mm next to each other directly underneath the consumer unit in the floor. (Check for any obstruction underneath).

Strip the outer skin of the orange cable (item 3) approx. 2" and strip the wires. Connect the earth wire (yellow/green) to terminal E, the live wire (brown) to connection L<sub>in</sub> and the neutral wire (blue) to connection N<sub>in</sub>.

Following this we connect the Earth bonding cable 6mm. (yellow/green) to terminal E. All incoming connections to the consumer unit are now complete. Fix the incoming cables to the caravan wall with the 2 white clips 11 mm.

Go underneath the caravan in order to connect, the orange cable to the surface inlet (item 2). Strip the outer skin of the orange cable over approx. 1 1/4" (40mm) unscrew the top of the surface inlet, make a hole in the grommet, feed the cable through the grommet and base, and connect the wires to the terminals of the surface inlet in the following order:

### VIEW OF TERMINALS



To help on installation of the Surface Mains Inlet. You will note that on the underside of the unit there is a knockout. This enables you to use either back or base cable entry, When, using base entry please use the sealing nut for the back of the inlet.

After these wires are connected fix the top back on the base of the surface inlet and secure it to the underneath of the caravan floor with 2 screws 8x 1<sup>1/4</sup>", screw grommet into place.

Connect the Earth Bonding cable to the chassis of the caravan by drilling a 5mm hole in the chassis and fix the wire connector to the chassis with the nut and boll supplied.

Inside the caravan cut the white cable 1.5mm(item 5) into two required lengths from the consumer unit to the two 13 amp sockets. (item 6).

Strip the outer skin over a length of 4" (100mm) of both white cables, strip the wires and connect the first white cable to the 10 amp. MCB as follows: Earth wire to terminal E, Live wire (Brown) to connection L<sub>2</sub> and the neutral wire (Blue) to terminal N<sub>2</sub>. Fix the cable to the wall with the white clips supplied towards the 13 amp socket. Connect this cable to the socket and fix it to the wall with 2 screws 8x 1". Next we connect. the second white cable by following the same as the first socket.

We then fix this cable to the wall with supplied white clips towards the second 13 amp socket. Connect this cable to the socket and fix to the wall with 2 screws 8x 1" (use green sleeving on earth wire).

Make the necessary holes in the consumer unit cover, after making sure all connections are secure and correct, replace cover and tighten with two screws. Connect up the mains with the connection lead (not supplied).

Connect the coupler with the surface inlet, unroll the cable and plug in to your mains supply.

**SWITCH ALL SWITCHES IN CONSUMER UNIT TO 'I' POSITION (ON)**

After this ensure that the polarity light on the consumer unit is not on. If it is on you have a wrong connection. Disconnect the plug from the mains supply and check all connections.

Check system before operating by pushing button marked "T" every time you connect and at least every month thereafter. The consumer unit should "trip out" and can be reset by returning switch on earth leakage circuit breaker to "I" position.

**IMPORTANT: IF IN ANY DOUBT, CONSULT A  
QUALIFIED ELECTRICIAN**

Other items in the "POWERPART" products range are:

Site plug

Caravan coupler

Site to caravan connection lead

Surface inlet

Mains consumer unit

Continental site plug

Conversion lead 13 amp. UK plug

Conversion lead continental plug

Mobile supply unit for camping and trailer tent.

Please ask your caravan dealer about the "POWERPART PRODUCTS"