

13 Pin Plug lead from caravan A frame

Fuses

Fuses need to be appropriately rated for the circuit. For example if you have all LED taillights and marker lights you might be able to use 3A or 5A fuses.

For the **Grey Road Light Neutral** a fuse is not needed. However I usually put a 40 Amp fuse in as a link. (It's also a handy security trick... remove that fuse and non of the road lights will work)

Left Hand Indicator
Fog Light
Road Light Neutral Only
Right Hand Indicator
Right Hand Tail Lights
Brake Lights
Left Hand Tail Lights
Reversing Light

Changeover Relay

40 Amp changeover relay to switch between caravan and car

To the caravan main 12 volt fuse board

CAR - CARAVAN Switch

On restoration projects or rewires of vintage caravans it might be desirable to retain the original feature of the CAR/CARAVAN switch.

This switch was to allow the user to select either caravan battery or if plugged in to the vehicle the car battery to power the caravan.

The Car/Caravan switch found on older caravans will be limited in current capacity. Two reasons, the first being the voltage drop between the car battery and caravan and the second by the size of the fuse in the leisure battery charging circuit (Max 20A)

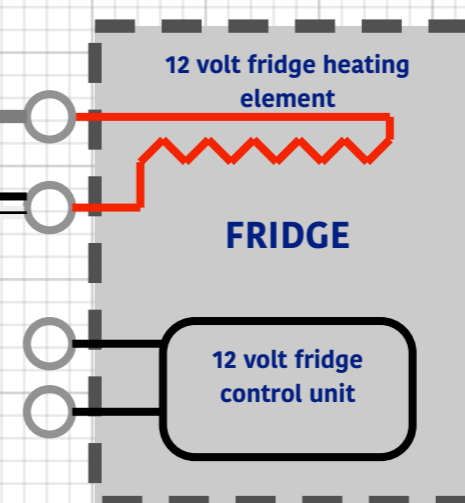
On a lot of caravans the switch was rated at about 10 Amps and no relay was installed. Some had a centre off position. If you are restoring and using the same switch I would strongly recommend you install a relay to do the heavy switching.

The relay must be powered from the vehicle leisure battery charging circuit and use the charging circuit neutral. This is so if the vehicle is disconnected, the relay will drop out and the caravan will return to being powered by the caravans leisure battery.

WARNING:

If you intend installing an inverter or have an inverter DO NOT INSTALL THIS SWITCH OR RELAY!

1	Yellow	Left Hand Indicator
2	Blue	Fog Light
3	White	Earth - Road Lights
4	Green	Right Hand Indicator
5	Brown	Right Tail Lights
6	Red	Brake Lights
7	Black	Left Hand Tail Lights
8	Pink	Reverse
9	Orange	Permant Power - Leisure Battery Charge
10	Grey	Switch Supply - Fridge Power
11	White/Black	Earth - Fridge Power Circuit
12		
13	White/Red	Earth - Leisure Battery Charge Circuit



Habitation Relay

Normally a 40 Amp changeover relay

Battery Fuse

The drawing shows a standard hi-capacity fuse, however this could be replaced by a Circuit Breaker

Links to the products can be found on the Caravan Chronicles Shop page:

<https://caravanchronicles.com/caravan-chronicles-shop/>

Title Caravan Connection Upgrade - Drawing No 02

Drawn Simon Barlow

Date 03/7/2019

© Simon P Barlow BSc MBCS CITP

Caravan
Chronicles