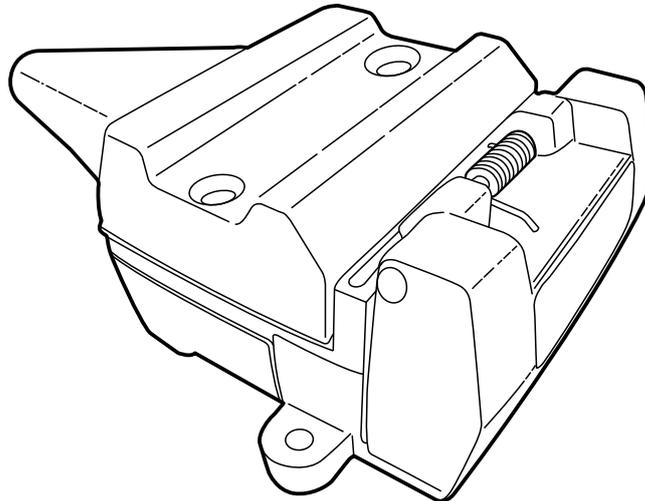




# CARAVAN

Various Models with 12-pin Plug

Fitting Time: 30 minutes



## Tow Vehicle Requirements Instructions

## General Notes

- Read through the fitting instructions before installation.
- Always install the accessory following the fitting instructions. Failure to do so may cause damage to the vehicle or the accessory.
- Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- It is always recommended that this accessory is fitted by a qualified technician.
- Safely store and protect any removed vehicle components.
- Remove all metal swarf and dust from all vehicle surfaces if surface is used for accessory installation.

## Safety Notes

- Check that all work practices comply with safety standards.
- Please wear appropriate clothing and use safety equipment.

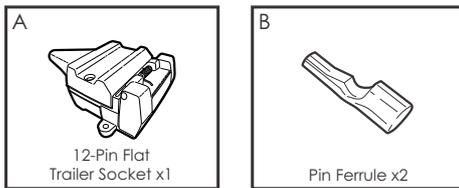


## Fitting Time

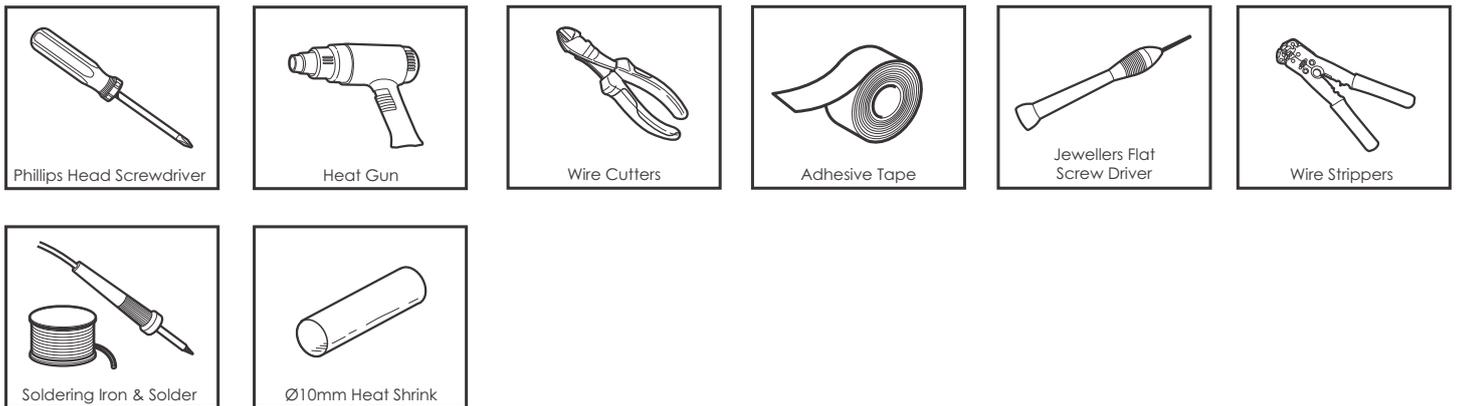


30 minutes

## Parts Supplied



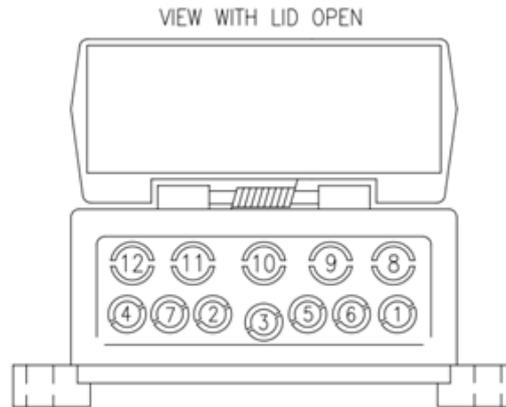
## Tools and Materials Required



All Jayco caravans utilise a 12-pin plug manufactured to Australian Standard AS4177.5-2004.

The following instruction is to ensure adequate wire sizes are used to support van electrical requirements, minimising voltage drop and resistance in the circuits.

A mating 12-pin socket is supplied with the caravan to fit to your towing vehicle. A pinout diagram of the socket is shown below:



Below is a table listing each pin, what circuit to connect to on the towing vehicle, and the minimum wire size to be used:

Pin #	Function	Colour	Min. Wire Sizr (T)		Special Connection Instructions
			mm <sup>2</sup>	AWG	
1	Left Indicator	Yellow	1.25	16	
2	+12V Supply from Battery	Black	3.0	12	Connect directly to vehicle battery with a 20A fast acting fuse
3	Ground	White	3.0	12	Connect to vehicle chassis ground point. Do not connect to trailer harness ground wire. Do not connect directly to negative battery terminal
4	Right Indicator	Green	1.25	16	-
5	Electric Brakes	Blue	2.0	14	Connect to Electric Brake Controller
6	Stop Lamp	Red	1.25	16	-
7	Tail Lamps	Brown	1.25	16	-
8	<i>Not Connected</i>	-	-	-	-
9	Fridge +12V Supply (direct from battery)	Pink	10.0	7	Connect direct to vehicle battery positive terminal with a 30A fast acting fuse
10	Fridge Ground (direct from battery)	White	10.0	7	Connect directly to vehicle battery negative terminal
11	<i>Not Connected</i>	-	-	-	-
12	<i>Not Connected</i>	-	-	-	-

(T) - mm<sup>2</sup> refers to the cross-sectional area of the copper in the wire.

Wire labelled as "6mm Auto" (for example) may not have 6mm<sup>2</sup> cross-sectional area

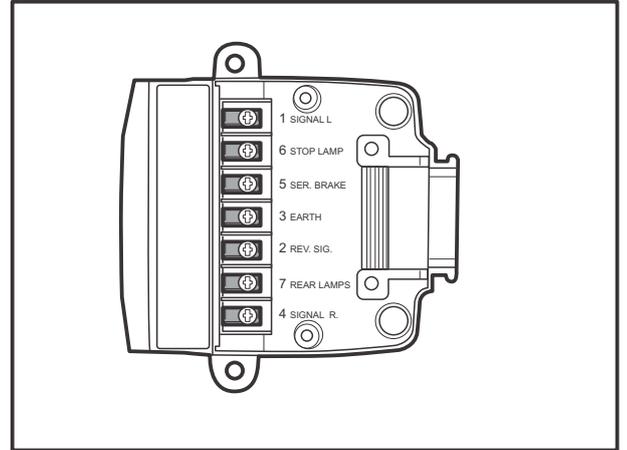


**It is critical that the correct wire size is used for each wire, otherwise damage could occur to the vehicle and caravan wiring. Consult a qualified auto electrician if you are unsure.**

## – Step 1

- Pins 1, 2, 4, 5, 6 & 7 will likely be connected through the towing vehicle's existing trailer wiring, and the wires can simply be removed from the existing vehicle trailer socket and housed in the correct pins on the supplied 12-pin socket.

**Note: Consult your vehicle dealer or a qualified auto electrician if you are unsure.**

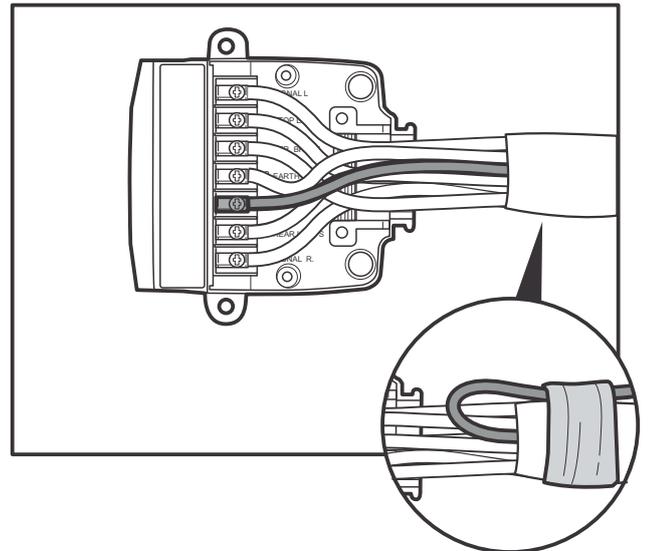


## – Step 2

- Pin 2 may be connected to the towing vehicle's reverse signal through the existing vehicle trailer wiring. If so, remove this wire from the existing vehicle trailer socket and tape it back. Then connect a new wire with a 20A fuse directly from the vehicle battery positive terminal to pin 2 on the supplied 12-pin socket (refer to table above for minimum wire size required)

**Note: Do not connect Pin 2 to any other existing power circuit on the vehicle. This could cause damage to the vehicle wiring. Consult your vehicle dealer or a qualified auto electrician if you are unsure.**

**Note: A fast acting 20A fuse must be used and mounted as close to the battery as possible.**



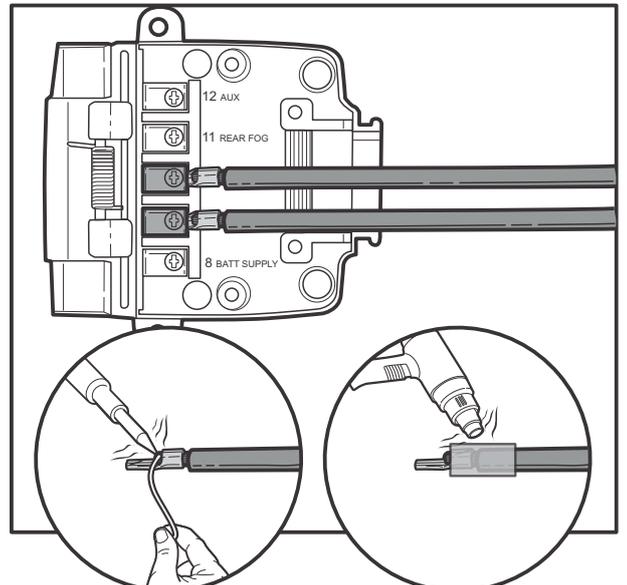
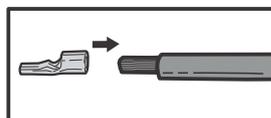
## – Step 3

- Pins 9 & 10 must be connected directly to the towing vehicle battery, refer to the table on page 3 above for minimum wire size required. Pin 9 wire should be fused with a 30A fuse as close to the vehicle battery as possible. At the 12-pin socket end, the pin ferrules must be soldered onto the wires and covered with heat shrink before fitting the wires into the supplied 12-pin socket.

**Note: Do not connect Pin 9 to any other existing power circuit on the vehicle. This could cause damage to the vehicle wiring. Consult your vehicle dealer or a qualified auto electrician if you are unsure.**

**Note: A fast acting 30A fuse must be used and mounted as close to the battery as possible.**

**Note: The heatshrink must be flush with the pin female barrel.**





### – Step 4

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- It is recommended that a voltage-sensing battery isolator relay is also installed in series with both the fridge +12V battery supply on Pin 9 and the standard 12V supply on Pin 2 in order to prevent the caravan from draining the towing vehicle battery. Both circuits can be connected to the battery through the same isolator relay as long as it is rated to at least 60A. The relay should be fitted and connected as close to the vehicle battery as possible – refer to the relay manufacturer instructions for exact installation requirements.

**Note: Consult your vehicle dealer or a qualified auto electrician if you are unsure.**

### – Step 5

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- Connect the caravan to the towing vehicle.
- Test all caravan lamps and other electrical devices for correct operation.