

## MP94 READY WIRED DUAL SOCKETS

Contains: 12N & 12S Sockets with Mounting Plate & Gaskets, ready wired with 1.5m 7 core cable.

### WARNING

Modern vehicles may be fitted with sophisticated electronics to monitor or to switch their road lights.

Direct connection of towing electrics could have an adverse affect. For these vehicles it is therefore strongly recommended that a multi-function bypass relay (MP3877B) is used when making the connection. If in doubt consult an auto electrician or tow bar fitter.

### Fitting Instructions.

1. Check vehicle rear lights are working correctly. Switch off all lights and ignition switch, if necessary isolate circuits by removing fuses or disconnecting the battery. **Caution!** When removing fuses or battery connection, engine management, alarm or audio equipment may be affected.
2. Fit the pre-wired socket mounting plate between the tow ball and vehicle towing bracket.
3. If access for the cables is not provided, drill suitable holes near the tow bar removing any sharp edges, repainting and fitting suitable grommets or using a sealant.
4. Enter the 7 core cables and strip off the outer covers as necessary, taking care not to damage the conductors.
5. Locate the wiring to the rear lights of the vehicle (usually on one side) and select a suitable point at which to make the necessary connections.
6. Identify the function of wires in the vehicle wiring by tracing back to the individual bulb holders of the rear lights or using a circuit tester.
7. Connect the 7 core cables using the following wiring codes: -

### 7 Pin Lighting Connections

12N	Black Cable	Function
Pin 1	Yellow	L/H Direction Indicator
Pin 2	Blue	Rear Fog Lamps
Pin 3	White	Earth Return
Pin 4	Green	R/H Direction Indicator
Pin 5	Brown	R/H Tail & No. Plate Lamp
Pin 6	Red	Stop Lamps
Pin 7	Black	L/H Tail & No. Plate Lamp

### Notes for 12N Wiring

It is a legal requirement that a signal shall be provided to the driver when the indicators of a towed trailer are working correctly. A selection of Maypole towing relays is available to conform to this requirement.

Number plate lights on the trailer should be wired to avoid a common contact between pins 5 and 7 of the 12N socket.

### Caravan 7 Pin Supplementary Circuits

Due to the use of a revised 12S wiring system, which is incompatible with the original UK Industry wiring system, we suggest that you connect your 12S socket as follows, to provide maximum compatibility.

12S	Grey Cable	Function
Pin 1	Yellow	Reversing Lamps
Pin 2	Blue	Battery Charging (original system)
Pin 3	White	Earth Return (for Pins 2 & 4)
Pin 4	Green	Power Supply
Pin 5	Brown	Spare
Pin 6	Red	Fridge
Pin 7	Black	Earth Return (for Pin 6)

### Notes for 12S Wiring

1. Ensure that no bridging connection exists between Pin 2 and Pin 3 of the 12S caravan plug.
2. Connections to Pin 2, 4 & 6 may vary on earlier installations.
3. Pin 2 and 6 for charging Caravan Battery and running refrigerator should be connected through a relay, so that current is only passed when vehicle engine is running. Dual charging relay kit (Part No.MP292) is recommended for this purpose.
4. Pin 4 which supplies interior lights or battery charging for caravans wired to the new system, is switched to battery charging by a relay in these caravans when the vehicle engine is running.
5. Always use a suitably fused battery supply for live connections. When extending the 12S cable, use wire of the same or greater thickness to prevent voltage drop.

**Always test the vehicle and trailer lights before towing. If you have any problems with wiring or compatibility, consult an Auto Electrician or your Caravan Dealer.**