2M 12N PREWIRED SOCKET WITH SEAL AND MOUNTING PLATE

7 Pin - 12N Tow Bar Wiring Kit for trailer lighting circuits excluding reverse.
Suitable for 12v Negative earth vehicles with constant rate direction flasher unit.

CONTENTS
Pre-wired 7 pin 12N socket with socket seal and mounting plate.

Warning

Modern vehicles may be fitted with sophisticated electronics to monitor or to switch their road lights. Direct connection of towing electrics to CANBUS or Multiplexed or electronically switched lighting circuits could have an adverse effect and should be avoided. For these vehicles it is therefore strongly recommended that a multi-function by-pass relay (MP3877B) TEB7A is used when making the connections.
Other by-pass relays MP3874B (TEB1) for a single circuit or MP3875B (TEB2MA) double indicator by-pass relay with audible monitor may be appropriate for some applications. Use of a bypass relay will require a battery supply with an in line fuse (see relay instructions for full details).
There is a statutory requirement to monitor and make the driver aware of the correct operation of trailer indicators when connected. As a minimum, a MP3870B (TEM1A) audible monitor should be used for this purpose.

If in doubt consult an auto electrician or tow bar fitter.

Fitting Instructions

1. Check vehicle rear lights are working correctly and that the 12N socket can be directly and safely connected to them. Switch off all lights and the ignition switch, if necessary isolate circuits by removing fuses or disconnecting the battery. Caution! When removing fuses 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 using the existing mounting bolts.
3. If access for the socket cable is not provided, drill a suitable hole near to the tow bar, removing any sharp edges with a file, repainting and fitting a suitable grommet.
4. 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 7 core cable connections.
5. Strip approx. 150mm. of the 7 core black cable sheath taking care not to damage the wires inside.
6. Identify the function of individual vehicle rear lamp wires by tracing back to the bulb holder or using a circuit tester. Connect the 7 core cable using soldered joints or insulated snap connectors, as below, do not cut the wires to vehicle lamps.
If an audible relay or bypass relay is used you must also refer to the instructions provided with the relay.

12N Socket	7 core cable	Connection
Pin 1	Yellow	L/H indicator in vehicle wiring
Pin 2	Blue	Rear Fog lights in vehicle wiring
Pin 3	White	Suitable good earth
Pin 4	Green	R/H indicator in vehicle wiring
Pin 5	Brown	R/H tail lamps in vehicle wiring
Pin 6	Red	Stop lamps in vehicle wiring
Pin 7	Black	L/H tail lamp in vehicle wiring

7. Ensure that all wiring connections are correct, replace any fuses removed, connect the trailer 12N plug and check vehicle and trailer lights function correctly.

Notes

Earth connections can be made to the vehicle chassis or bodywork. A good connection is important, this should be an earth point or bare metal, free from paint or rust
Number plate lamps on the trailer should be wired to avoid a common connection between terminals 5 & 7 of the 12N socket.
If there is a requirement to disconnect the vehicles rear fog lamps when towing to prevent back glare, this can be done automatically by fitting a Fog Cut Off relay part number MP276B (TEF1) or MP2761B (TEF2)