

## Fitting Instructions

### TEB7A-24 7 Way Bypass Relay inc Buzzer 24v Vehicle 12v Trailer

#### Description

This 7 way bypass relay may be used on 24v negative earth vehicles towing 12v trailers or caravans. A 12v source from the vehicle is required, which may be taken from the central 12v tapping of the battery or preferably from a 24v-12v switched mode converter if towing is a regular occurrence.

#### Procedure

##### Warning.

This relay should be fitted to negative earth vehicles only.

The relay must be located where there is no possibility of moisture ingress. This is very important with vans where the relay should be positioned well above the lamp cluster.

Great care should be taken if the relay is fitted to a vehicle having multiplexed circuitry, and no attempt should be made to interrupt or interfere with the BUS, the ESUs or the power cable of a multiplexed system. Power should be taken from the main fuse box or battery and signal sampling from the regular 12v system directly feeding the rear lamp clusters.

Prepare the Socket and cables.

- Fit the prewired 7 pin socket (or 13 pin socket as appropriate) onto a backplate fitted to the towing hook mounting points.
- Drill a 13 mm hole, or larger dependant on the size of the multicore cable used, into the floor of the vehicle adjacent to the socket. Protect the bare metal with rust inhibitor.
- Slide correctly sized grommet onto the cable. Pass the cable into the vehicle and make a seal with the grommet at the entry point.
- Strip back a portion of the cable outer sleeve and strip the wire ends. Connect a ring terminal to the white wire.
- Route 2 sq mm cable from car battery or fuse box to the boot, fitting an inline 15a blade type fuseholder. Do not insert the fuse at this stage.

Make connections from relay into the vehicle loom.

- Using scotch locks, solder joints or similar, attach the various signal wires coming from the side of the relay into the car loom, teeing in at a point close to the vehicle's lamp circuit that is being sampled and avoiding any multiplex wiring or other devices.