

Fitting Instructions

TEB7AS 7 Way Universal Bypass Relay inc Buzzer

Description

This 7 way bypass relay may be used on negative earth vehicles of all types, from those that just require a simple bypass function for circuit protection or to avoid confusing the bulb failure warning systems, to those with part or full multiplexed systems and including modulated outputs (appearing as low voltages) to the various rear lamp clusters.

It is capable of detecting, analysing and rerouting modulated signals present on an increasing number of modern vehicles which would otherwise cause incorrect bulb operation, relay chatter, dimming and even non functioning of bulbs if a standard bypass relay were fitted.

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 boot adjacent to the socket. Protect the bare metal with rust inhibitor.
- Slide correctly sized grommet onto the cable. Pass the cable into the boot 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 car 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 car lamp circuit that is being sampled and avoiding any multiplex wiring or other devices.

** If the car has a common wire feeding tail & brake, or tail & fog, the brown and black signal wires should not be connected to this common wire. ie For a common tail & brake combination, connect only the red signal lead to the common car harness lead and tape up the brown and black. Similarly connect just the blue signal lead from the relay for a fog/tail combination.