

FORD:

1999-2005 F-Super Duty
 2000-2005 Excursion, F-650, F-750

This article supersedes TSB 02-21-9 to update the vehicle model years.

ISSUE

When adding additional bulbs to the turn signal or hazard flasher circuits, isolation relays must be used in order to prevent damage to the flasher relay module and/or the multi-function switch, and to prevent erratic operation.

ACTION

The following current ranges must be adhered to on the original flasher circuitry:

- Minimum rated current for the turn signal (either left or right) is 4.45A, at 12.8V and the maximum rated current is 5.06A at 12.8V

- Turn signal current draw below 2.83A at 12.8V will cause the flasher to flash rapidly
- The minimum rated current for the hazard flasher is 4.20A at 12.8V and the maximum rated current is 10.12A at 12.8V

Any additional current load above the maximum rating must use isolation relays. Refer to (Figure 1) for typical relay installation illustration.

WARRANTY STATUS: Information Only - Not Warrantable

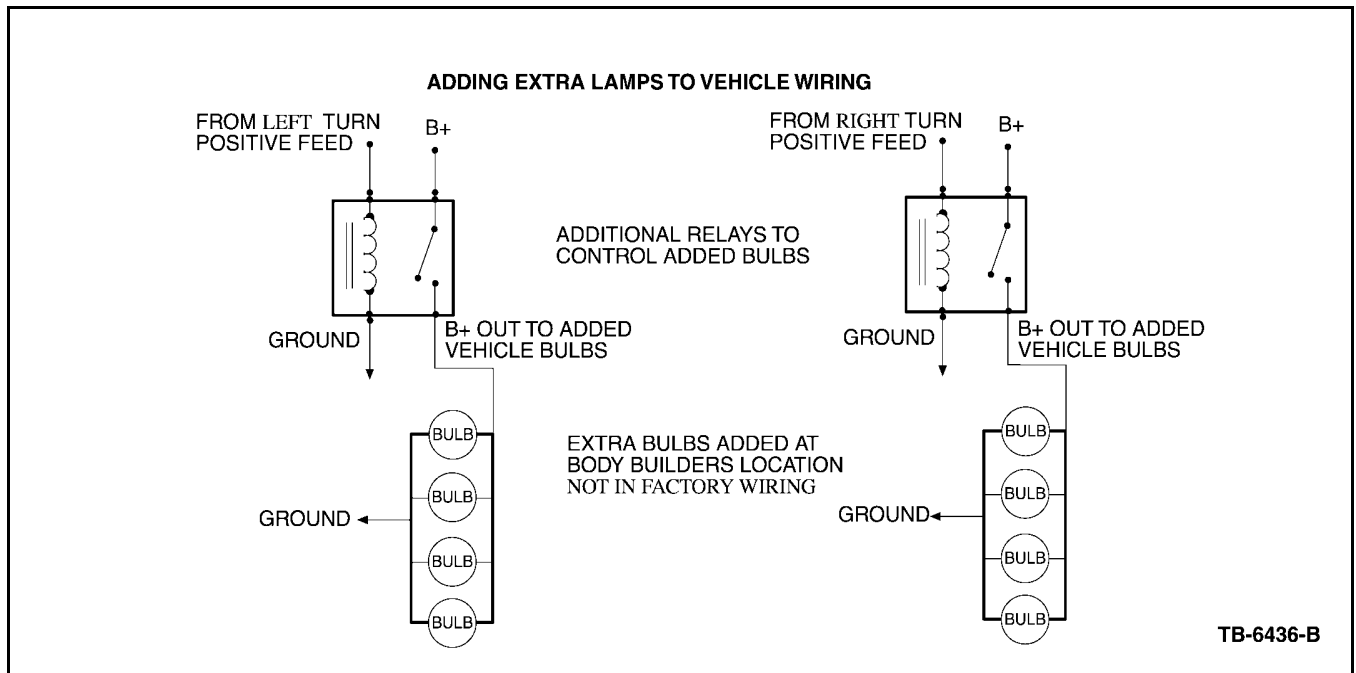


Figure 1 - Article 04-18-15

NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by “do-it-yourselfers”. Do not assume that a condition described affects your car or truck. Contact a Ford, Lincoln, or Mercury dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company’s on-line technical resources.