



SPRINTER - Adding Additional Batteries

Technical Bulletin UM906/21

EVS Charleston, 05/25/2017

Mercedes-Benz Vans, LLC

Mercedes-Benz



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This bulletin is not intended to serve as a work instruction, but merely to provide some helpful information for Upfitters to take into consideration before retrofitting or modifying a Mercedes-Benz Sprinter Van.

Prior to making any modification to or installing any equipment in or on a Mercedes-Benz or Freightliner Sprinter, you should review and ensure compliance with all applicable laws and regulations, consult with Vans Engineering Support for Upfitter Management for additional and updated information, and read the Body & Equipment Guidelines for Sprinter Model Series 906.

Upfitter Management Vans Contacts:

For information or Upfitter inquiries
please submit a request via our website:

www.upfitterportal.com

SPRINTER Auxiliary Equipment – Additional Information to BEG

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BEG 906 (*SPRINTER*) – Body & Equipment Guideline
Retrofitting an additional battery – see page 48

The BM906 *SPRINTER* wiring harness allows for one additional battery to be added.

For applications that require an additional power supply, such as more than one additional battery, solar panels, chargers, etc., refer to section 7.3.1 in the BEG for additional battery requirements.

7.3.1. Retrofitting an additional battery

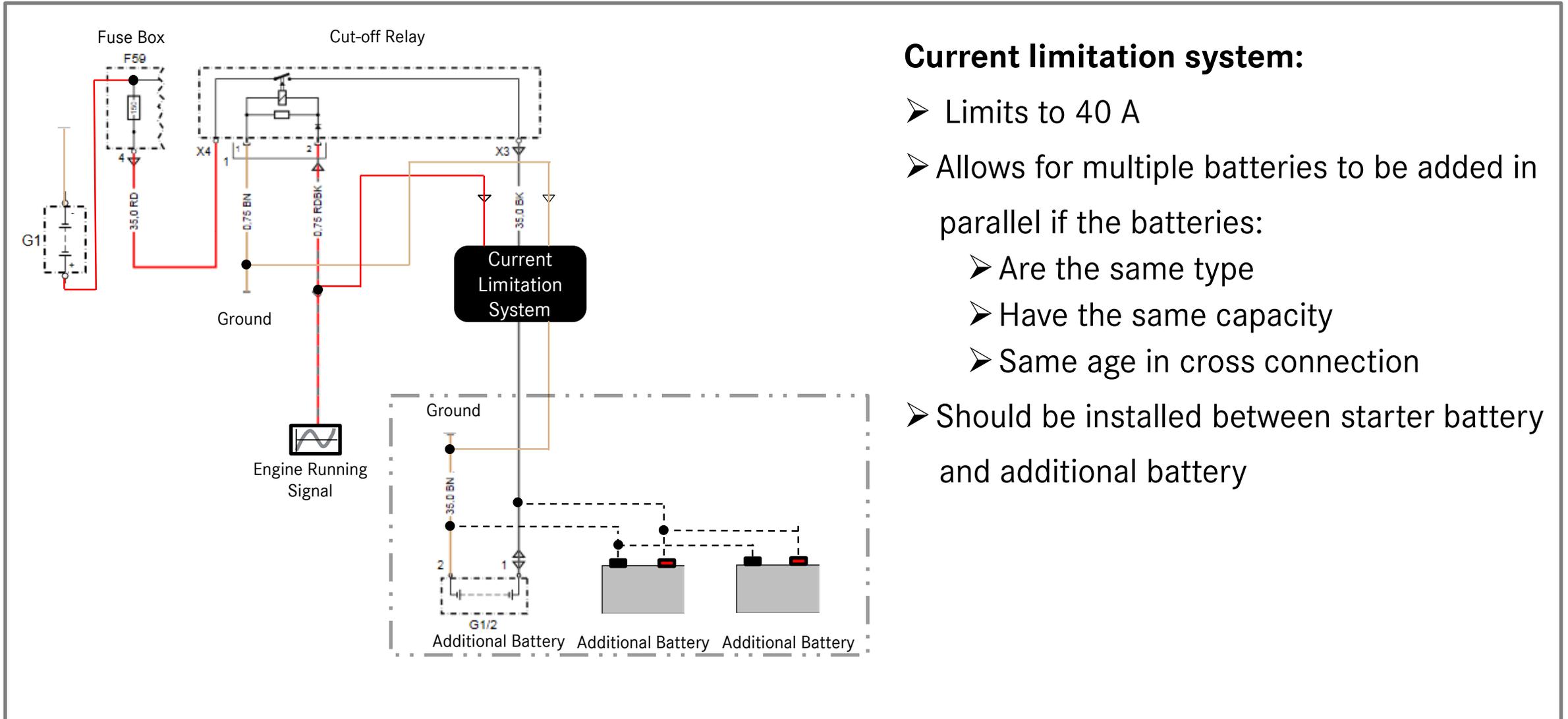
Additional batteries must be connected to the vehicle on-board electrical system using a suitable cut-off relay and fuse. You can obtain more information and a design proposal from the department responsible. When installing an additional battery, ensure that the same type of battery is used as the starter battery.

If the auxiliary battery is located in the passenger compartment, battery gases must be vented to the outside via a central vent hose.

If the vehicle is already equipped with one additional battery, no more additional batteries may be connected in parallel without a charging current limitation system. This can be implemented by means of additional electronics. The body manufacturer must ensure that the maximum charging current for both additional batteries is 40 A. If this is not the case, the basic vehicle may be damaged. A suitable alternator must be selected to ensure that the overall charging balance is positive

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Current limitation system:

- Limits to 40 A
- Allows for multiple batteries to be added in parallel if the batteries:
 - Are the same type
 - Have the same capacity
 - Same age in cross connection
- Should be installed between starter battery and additional battery