



# Bulletin: Trailer Brake Control Prep

8/24/2015



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**NOTICE:**

The specifications, descriptions, information, and recommendations contained in this bulletin are believed to be accurate as of August 25, 2015.

Upfitter Management Vans reserves the right to modify or append this document without prior notification.

This bulletin is not intended as a work instruction, but as a guideline for upfitters to provide technical information necessary to retrofit or modify Mercedes-Benz Sprinters & Freightliner Sprinters (906).

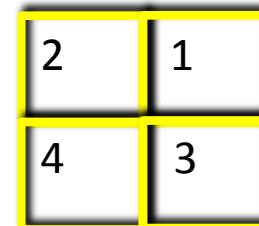
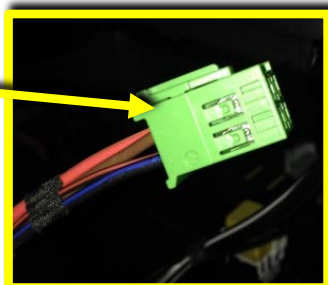
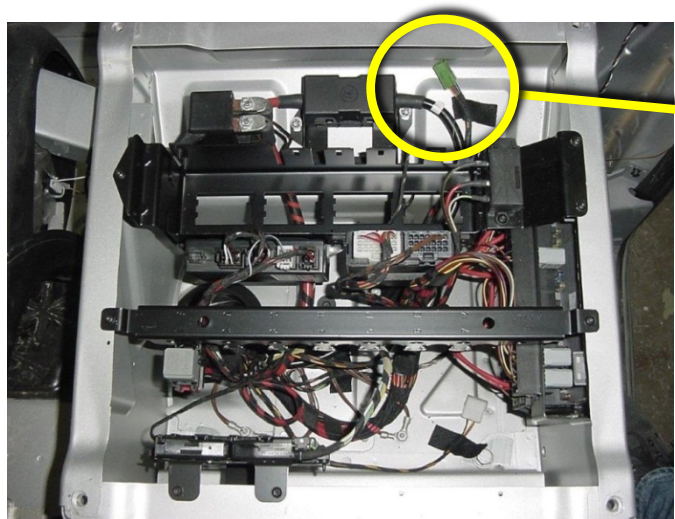
Prior to making any modification to or installing any equipment in or on a Mercedes-Benz Sprinter & Freightliner Sprinter, please consult with Upfitter Management Vans for additional and updated information, and read the Body & Equipment Guidelines for Sprinter Model Series 906.

**Upfitter Management Vans Contacts:**

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

[www.upfitterportal.com](http://www.upfitterportal.com)

## Trailer Brake Control Female Connector



Pin	Color	Size	Description
1	Red/ Yellow	2,5mm <sup>2</sup> / max. 18A	<b>12V Positive</b> Fused via F55/6 (max. 30A) on Position 30
2	Brown	2,5mm <sup>2</sup> / max. 18A	<b>Ground</b> (via Seatbase)
3	Black/ Red	0.75mm <sup>2</sup> / max. 7A	<b>Brake Signal from vehicle</b> (via Trailer Control Unit Code E40) <b>OUTPUT ONLY</b>
4	Black/ Blue	2,5mm <sup>2</sup> / max. 18A	<b>Signal to 7-Pin Connector</b> at Trailer Hitch

- The green connector inside the driver seat box is for an aftermarket trailer brake control module. Please locate it before you proceed.
- The brake signal from the trailer control module is not directly hardwired to the 7-way trailer tow connector. Instead, the brake signal circuit is routed to the green 4-pin connector (pin 3) and from there a separate wire (pin 4) is routed to the trailer tow 7-way connector.
- With the green connector an aftermarket trailer brake control module can be installed, it already has power and ground, as well as the brake signal input and output circuits.
- **All cables for fitting a trailer brake controller should be routed using the green connector only!**
- **Do not exceed maximum circuit warning!**

## Trailer Brake Control Male Connector

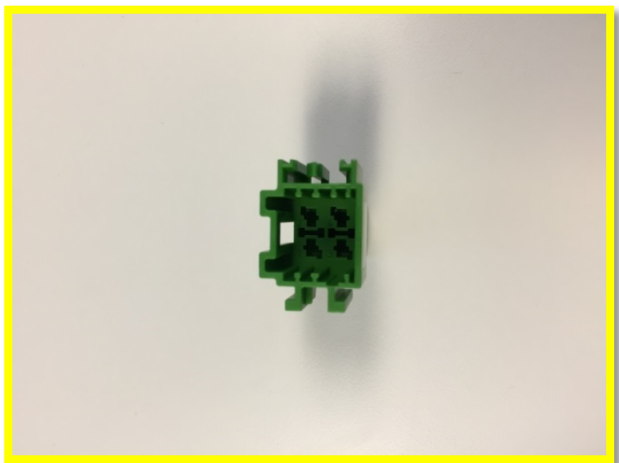


Figure 1



Figure 2

Figure	Part Number	Description
1	A 039 545 35 28	Plug Connector 4-pin
2	A 035 545 74 28	Flat plug terminal (Male) 1.5 – 2.5 mm <sup>2</sup>
3	A 046 545 40 28	Flat plug terminal (Male) 0.75 – 1.0 mm <sup>2</sup>

- Crimp pins to your wiring harness and attach to the Plug Connector making sure that your wires match the female connector pin layout as outlined in page 2 of this document.

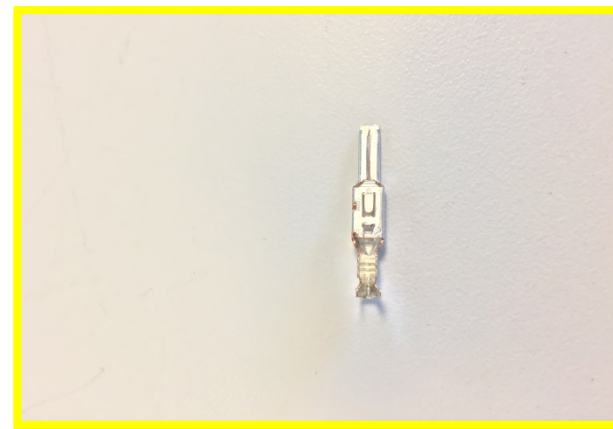
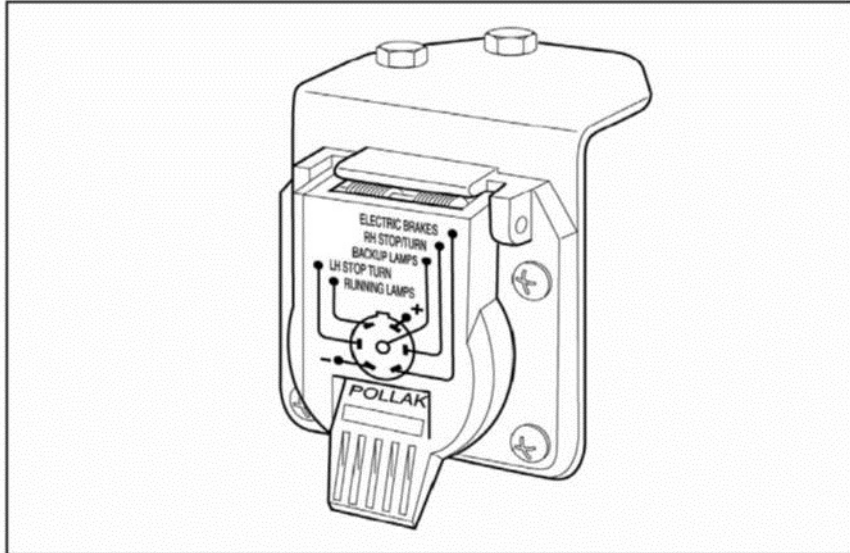


Figure 3

# #7 Pin at Trailer Connector Socket



Circuit Description	Cavity Number (10 Pin Connector)
Electric Brakes	7
RH Stop Turn	2
Backup Lamps	3
LH Stop Turn	10
Running Lamps	5
Power (+)	4
Ground (-)	8

