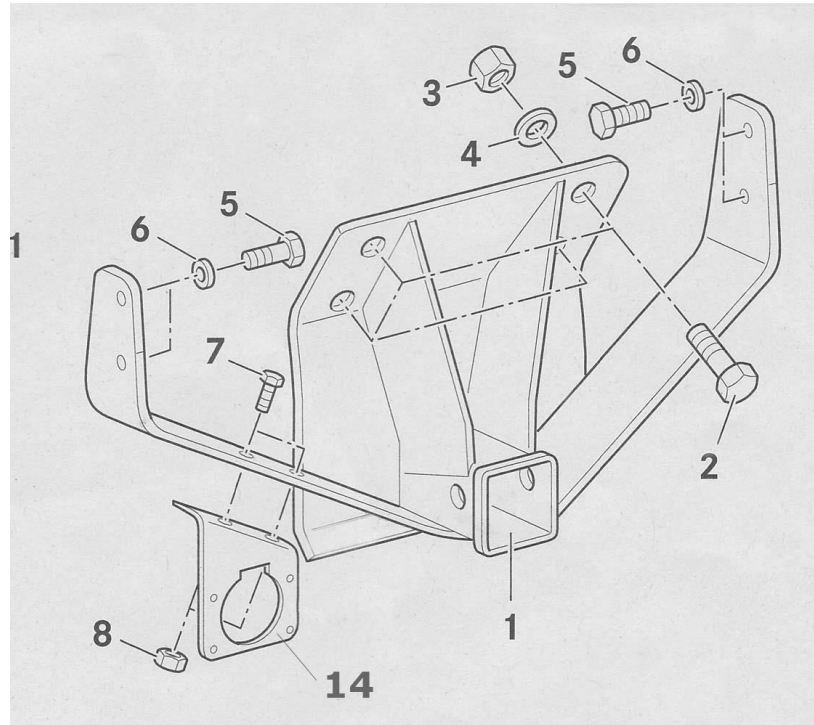


## Installation Manual W463 Trailer Hitch Receiver

For Mercedes-Benz USA Geländewagen W463 from 1990 to 2009  
For Mercedes-Benz ROW Geländewagen W463 from 1990 up to 2013



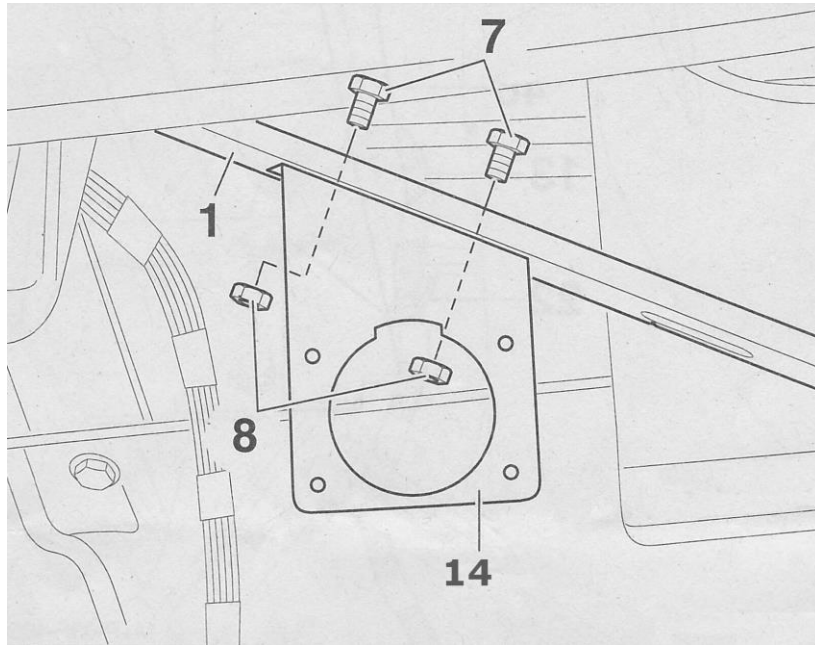
### Parts Lists

#### W463 Trailer Hitch Receiver VTS-7156

1. Trailer Hitch Receiver
2. M14 x 1.5 x 40 mm 10.9 Hex Bolts (4 pcs.)
3. M14 x 1.5 mm 10.9 Lock Nuts (4 pcs.)
4. Washer M14 10.9 (4 pcs.)
5. M10 x 1.5 x 30 mm 10.9 Hex Bolts (4 pcs.)
6. Washer M10 10.9 (4 pcs.)

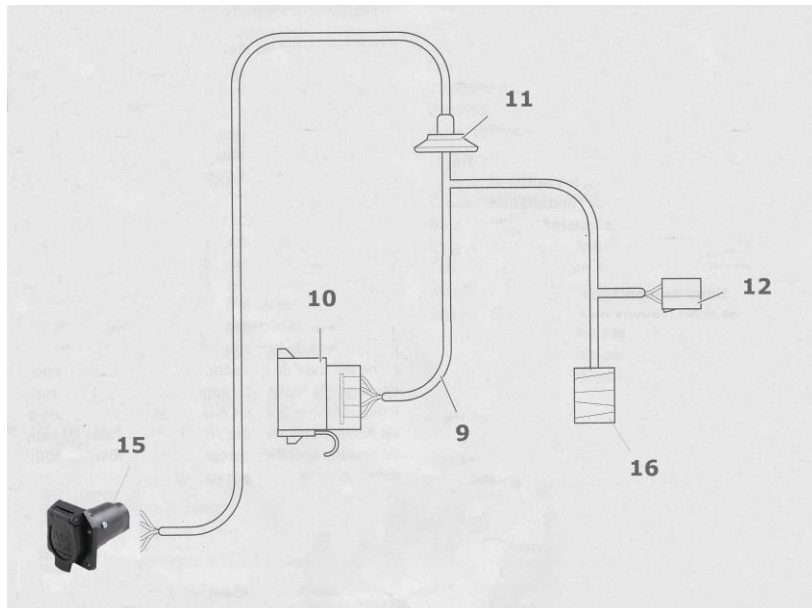
#### Trailer Socket Bracket VTS-7157 (included with VTS-7158)

7. M6 x 20 mm Hex (2 pcs.)
8. M6 Nuts, self locking (2 pcs.)
14. Trailer Socket Bracket



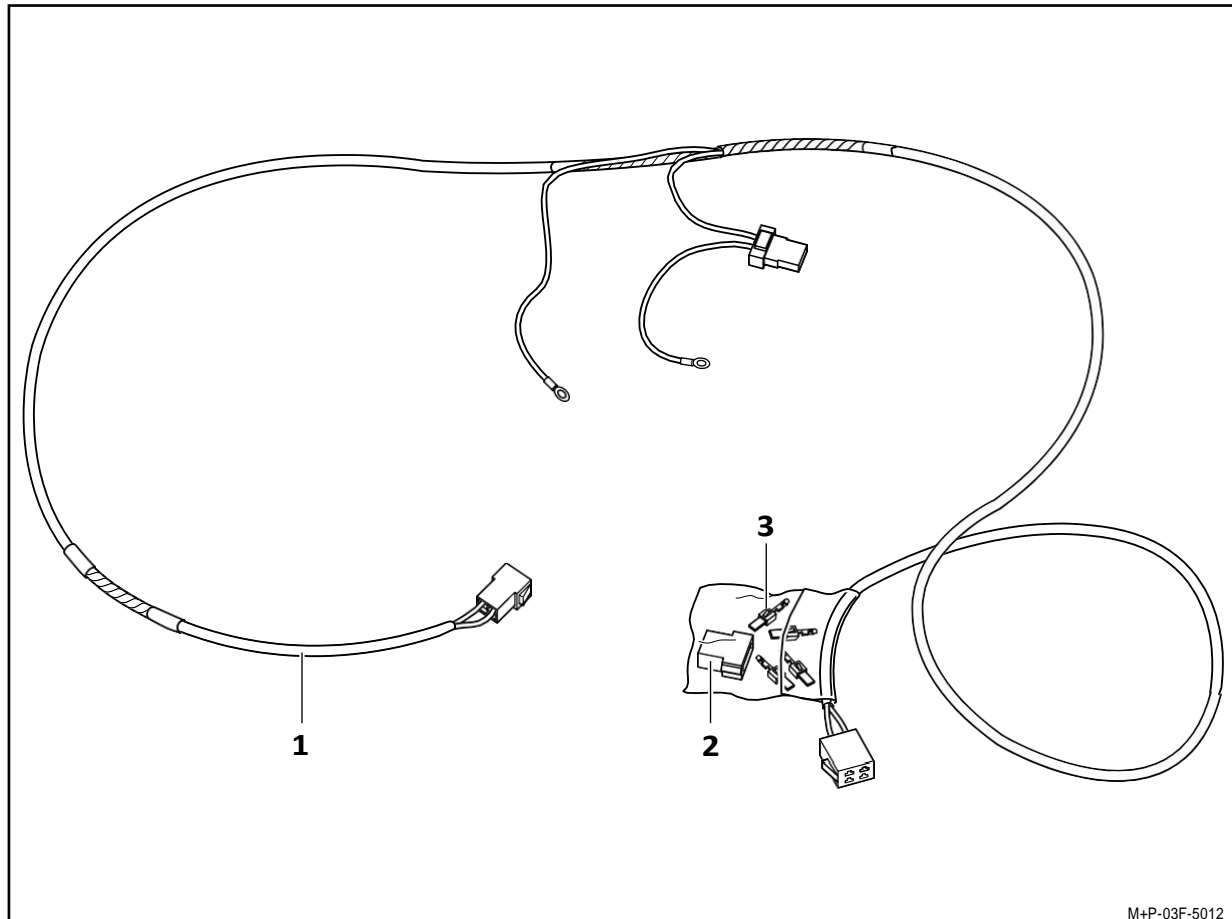
**Electrical Trailer Harness VTS-7158 (optional)**

- 9. Cable Set with CRT diode board
- 10. Multi-pin harness connector to vehicle
- 11. Rubber Grommet
- 12. Connection plug for Brake Controller Harness VTS-7159
- 15. 7-pin Trailer Socket USA
- 16. CRT diode board



### Electrical Brake Controller Harness VTS-7159 (optional)

1. Brake Controller Harness w/ connectors
2. Connector Housing for electronic brake controller (not supplied)
3. Crimp-On Pins for Connector Housing

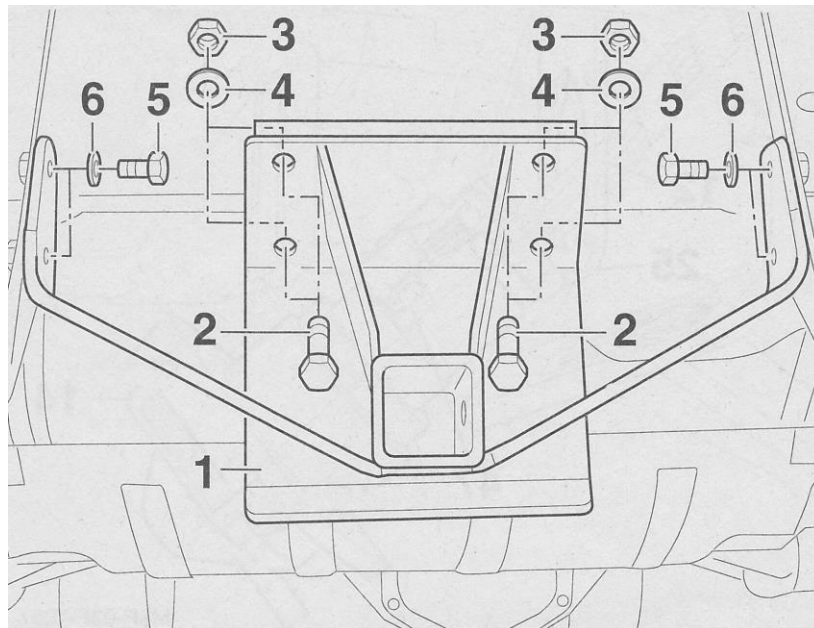


M+P-03F-5012

## Installation of the W463 Trailer Hitch receiver.

This install manual is applicable for USA W463 vehicles from 1990 to 2009

- Connect Memory Saver and Current Drain Tester (see WIS instructions\*)
- Disconnect battery ground cable (see WIS instructions\*)
- Disassemble and remove rear bumper
- Clean the hitch mounting areas of all under-coatings or similar matters.
- Attach the trailer hitch receiver (1) with the M14hex bolts (2), washers (4) and self-locking nuts (3) onto the truck's frame, but only finger tight,
- Attach the side tie-bars of the hitch, right and left to the frame members, with the M10 hex bolts (5) and washers (6), again only finger tight
- **Important**
- First tighten the M14 hex bolts (2) with a torque of 118 ft lbs (160 Nm)
- Then tighten the M10 hex bolts (5) with a torque of 55 ft lbs (75 Nm)



If you are not using our All Steel Rear Bumper VTS-7151 with the trailer socket mounting provision, please install the optional bracket for the trailer socket using the M6 hex bolts and self-locking nuts, to the left side hitch tie-bar. Mounting holes are provided.

If you are not installing the electrical trailer harness VTS-7158, re-assemble, mount and align the rear bumper (see WIS instructions\*).

Reconnect battery ground cable and remove Memory Saver and Current Drain Tester (see WIS instructions\*)

This completes the W463 Trailer Hitch Receiver Installation.

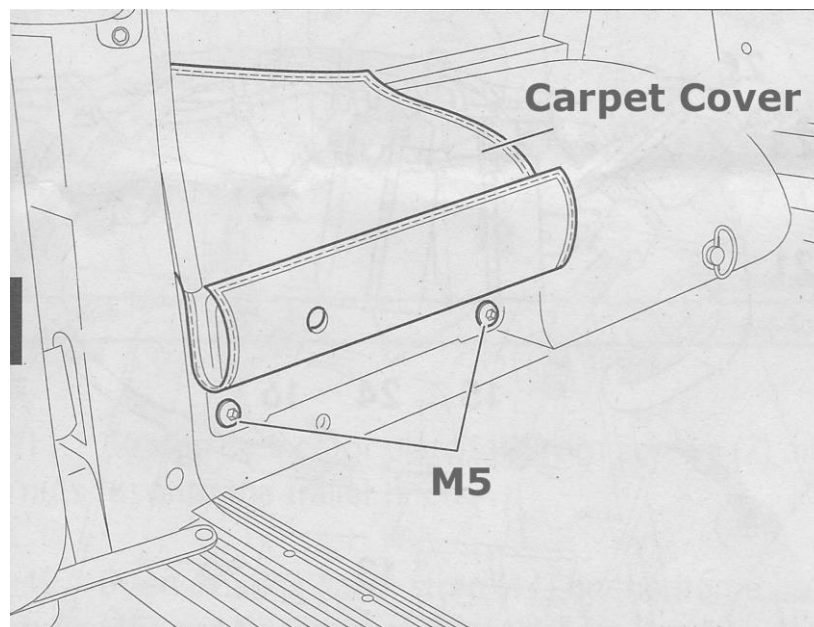
## Installation of the Electrical Trailer Harness VTS-7158 (optional)

This trailer harness is applicable for MBUSA W463 vehicles from 2002 up to 2013

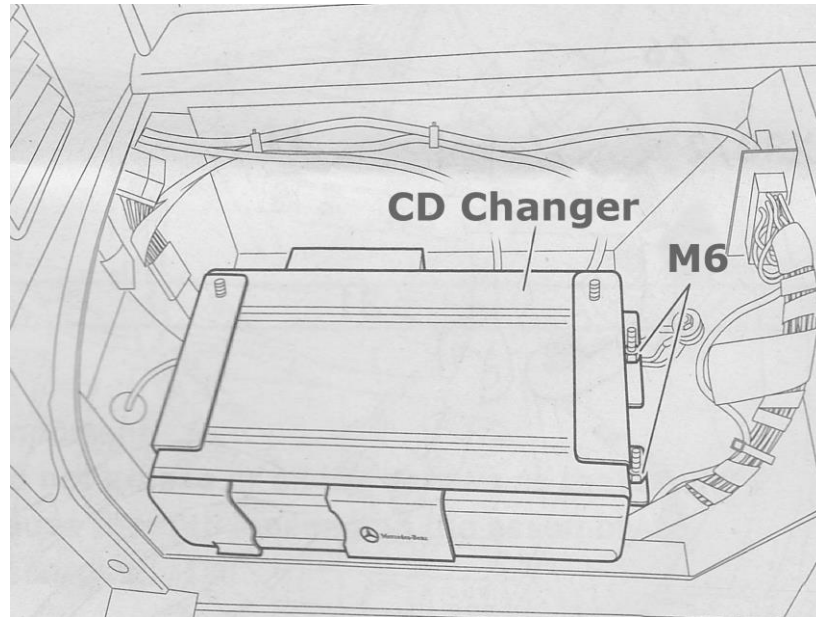
- Connect Memory Saver Tool / Current Drain Tester (see WIS instructions\*)
- Disconnect battery ground cable (see WIS instructions\*)



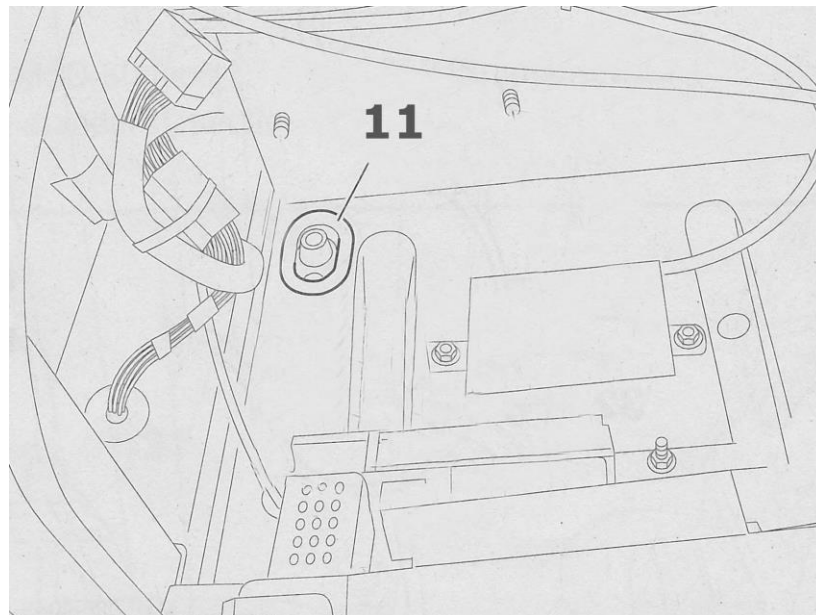
- At the left rear cargo area, unscrew the M8 bolt and remove the tiedown loop
- Unscrew the carpet edge strip
- Remove the CD changer trim frame, lift up the carpet and unscrew the two M5 Phillip screws.



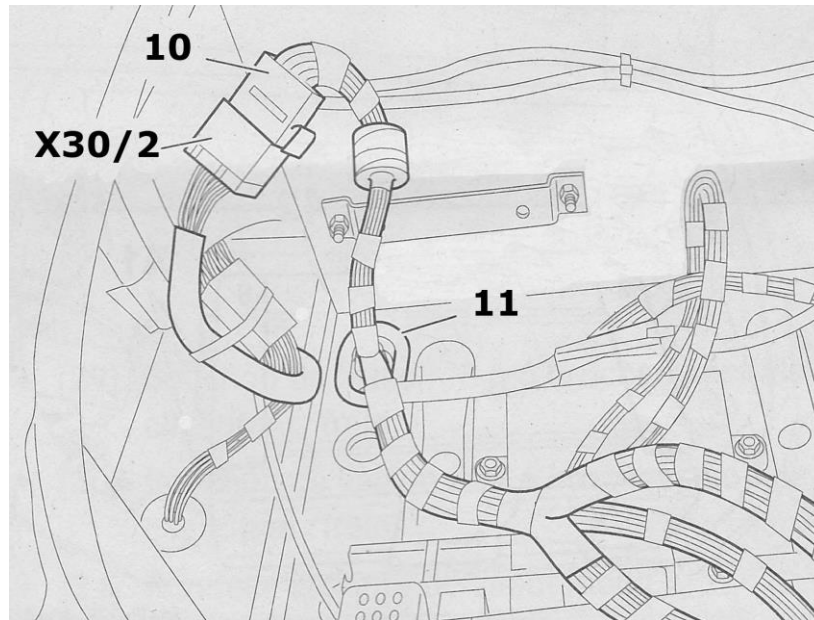
- Lift and remove the control unit metal cover.
- Unscrew the four M6 nuts to remove the CD changer
- Disconnect the fiber optic and CAN bus connector, by pushing on the release tab
- Lift out the CD changer.



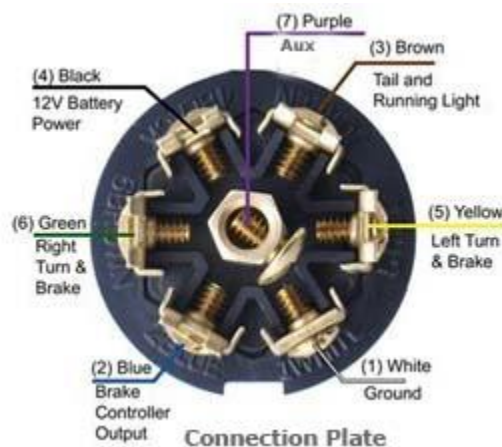
- Remove the large rubber grommet (11) in the very left rear area.



- Push the new trailer harness (9), with its trailer socket end, from the inside through the hole and install the harness grommet (11) in there.
- Insert the 16-pin harness connector (10) into the pre-fitted mating receptacle X30/2
- The X30/2 is a factory provided, two chamber connection housing, located behind the CD changer location.



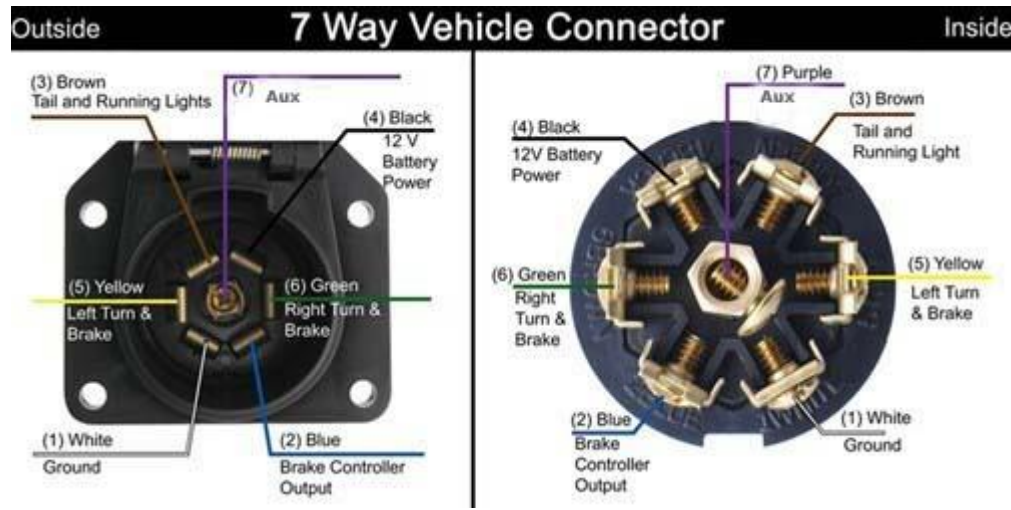
- Secure the trailer harness (9) and the CRT diode board (16) with cable ties to the existing wire looms
- Route the outside section of the trailer harness along the truck's frame tube to the trailer socket mount location in the All Steel Rear Bumper or the socket bracket (14).
- Remove the connection plate from the 7-pin trailer socket (15).



- Route the harness end through the hole in the rear bumper or the socket bracket and through the body of the 7-pin trailer socket



- Connect the harness wires to the connection plate, as shown in the diagram below.



- **Please use only the connection scheme from above by wire colors or pin numbers.**
- The wire colors in the harness are adapted to the USA DOT standard.
- Re-assemble the trailer socket carefully and mount it with the four M5 screws into the rear bumper or the trailer bracket.
- Secure the harness with wire ties and make sure it cannot chafed or damaged in any way.
- Re-install and fasten the CD changer and mount the control box cover and tighten screws. Install carpet cover and fasten edge strip.
- Re-assemble, mount and align the rear bumper (see WIS instructions\*).
- Reconnect battery ground cable and remove Memory Saver and Current Drain Tester (see WIS instructions\*).
- Check/Test function of the trailer harness

\* WIS Instructions - Mercedes-Benz's **W**orkshop **I**nstruction **S**ystem

**Please Note:**

The constant +12VDC power supplied to the trailer, Terminal #4 at the 7 Way Vehicle Connector, is fused at the Center Console Fuse Panel, fuse #19, 20 Amp.



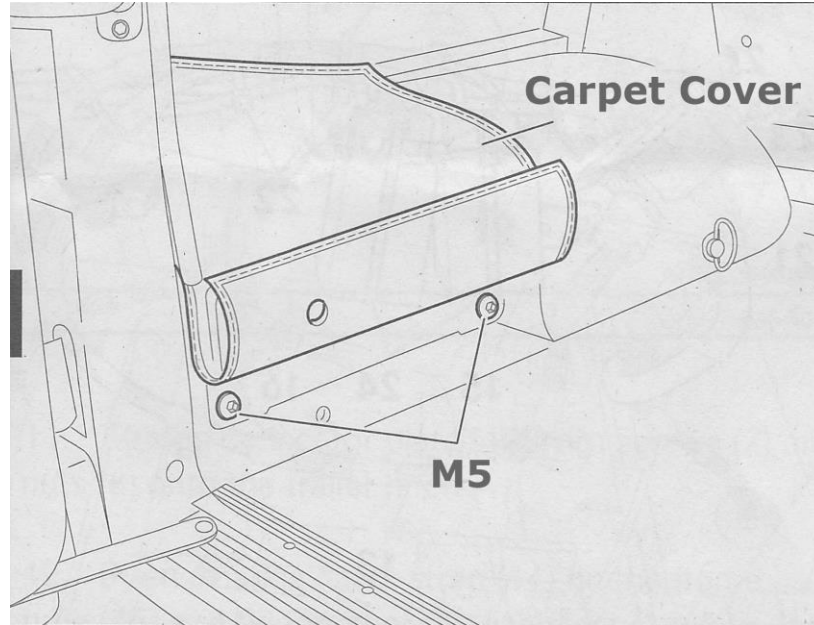
## Installation of the Brake Controller Harness VTS-7159 (optional)

**This trailer harness is applicable for MBUSA W463 vehicles from 2002 up to 2013**

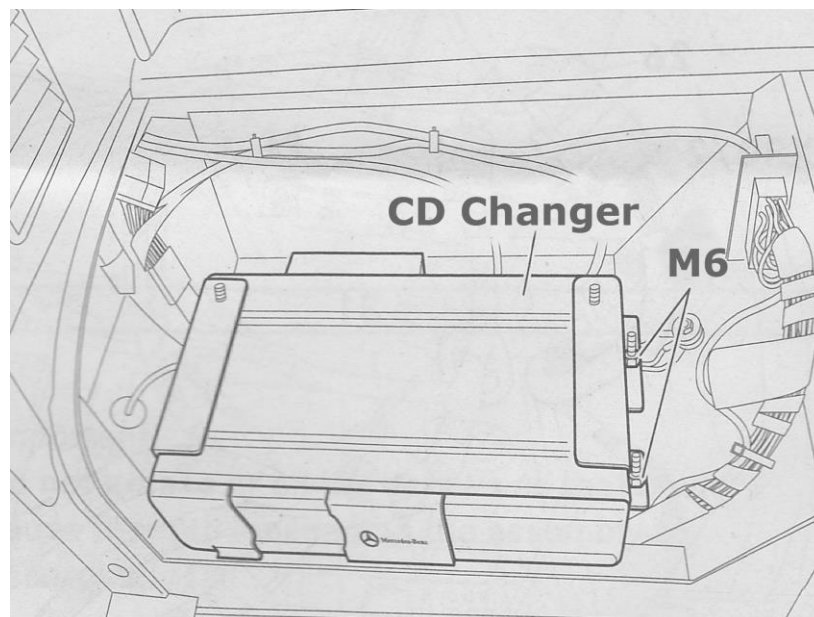
- Connect Memory Saver and Current Drain Tester (see WIS instructions\*)
- Disconnect battery ground cable (see WIS instructions\*)



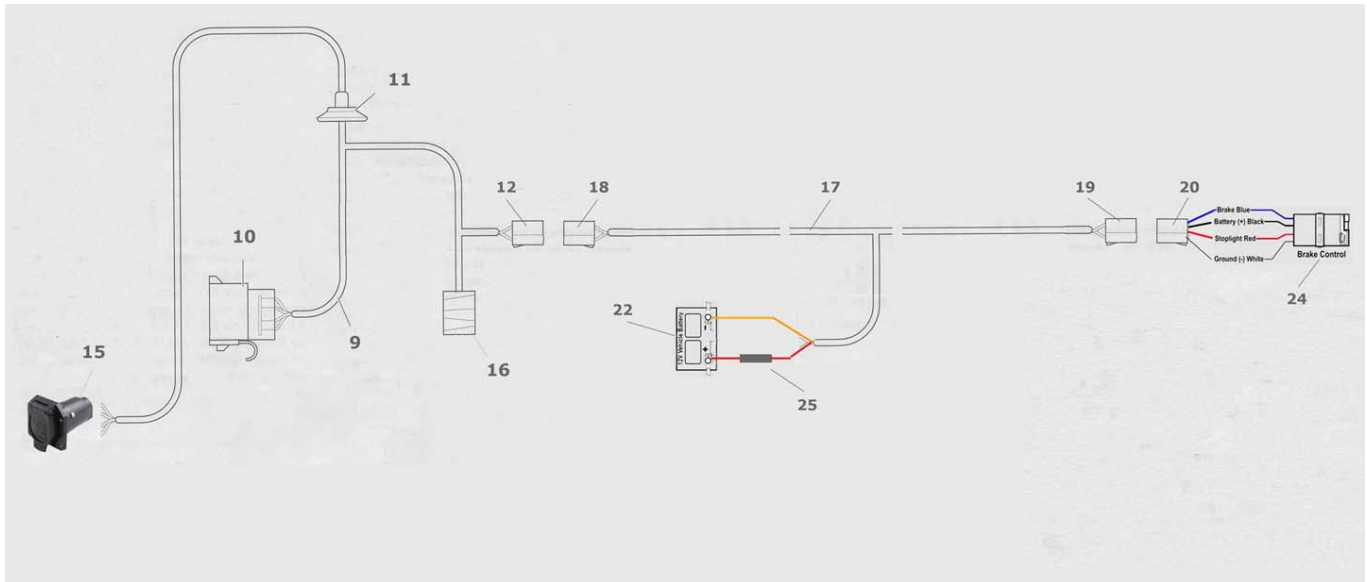
- At the left rear cargo area, unscrew the M8 bolt and remove the tiedown loop
- Unscrew the carpet edge strip
- Remove the CD changer trim frame, lift up the carpet and unscrew the two M5 Phillip screws.



- Lift and remove the control unit metal cover.
- Look for the small 2-wire T-connector (12) on the VTS-7158 Trailer Harness (9) behind the CD-changer.
- Optional: Unscrew the four M6 nuts to remove the CD changer
- Optional: Disconnect the fiber optic and CAN bus connector, by pushing on the release tab
- Optional: Lift out the CD changer.

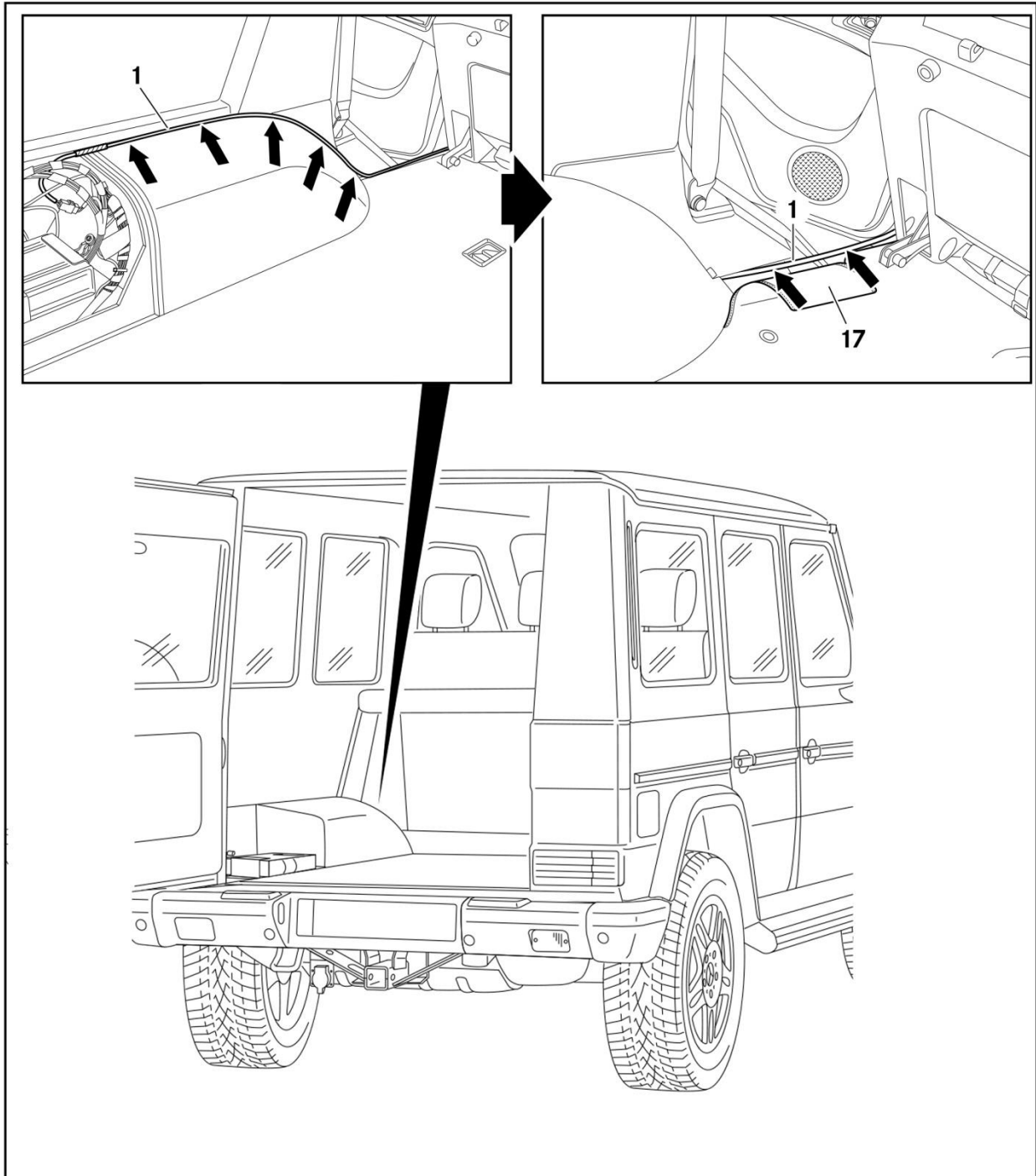


- Connect the Brake Controller Harness (17) with its 2-wire T-connector (18) into the mating connector housing (12) on the VTS-7158 Trailer Harness (9).

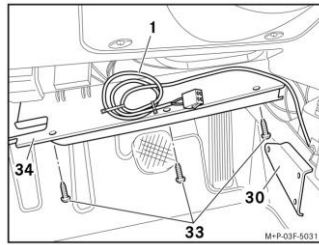


9. Cable Set Trailer Hitch Harness VTS-7158 with CRT diode board
10. Multi-pin harness connector to vehicle
11. Rubber Grommet
12. 2-Pin Connection socket for Brake Controller Harness VTS-7159
15. 7-pin Trailer Socket USA
16. CRT diode board
17. Cable Set Brake Controller Harness VTS-7159
18. 2-Pin Connection Plug for Trailer Hitch Harness VTS-7158
19. 4-Pin Connection Plug for electronic brake controller (not supplied)
20. 4-Pin Connection Socket w/ 4 Crimp-on Pins supplied
22. Vehicle Battery
24. Electronic Brake Controller (not supplied)
25. Fuse Holder w/ 20Amp Fuse

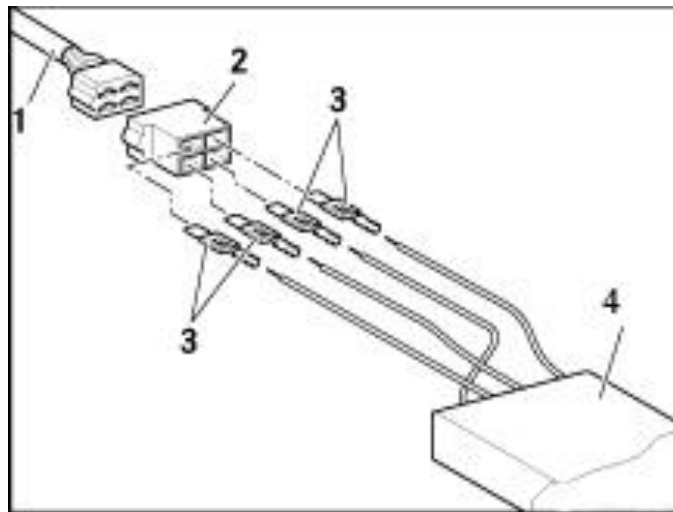
**Install the Brake Control Harness forward to the driver's foot room / Electric Brake Controller Location**



**Choose the best location to mount the Electronic Brake Controller (supplied by others)**



**Use the provided 4-pin connector housing and the four male crimp-on pins, to make the connections with the Electronic Brake Controller's wiring pig-tail. Please make sure to match the wire colors from the VTS-7159 harness with the colors or wire coding from the Brake Controller – see below.**



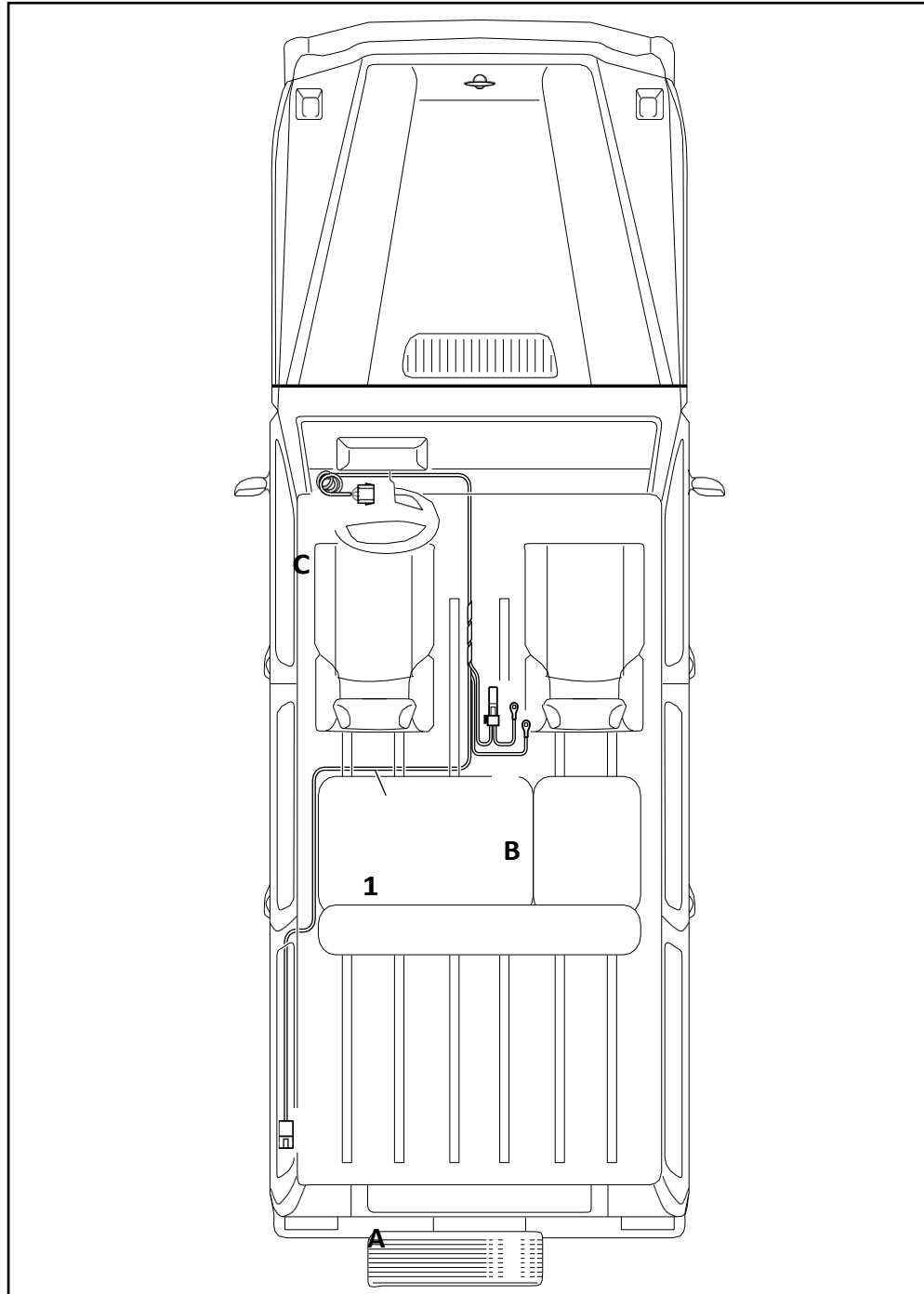
1 Brake controller Harness w/ 4-pin Connector

2 4-pin housing for Electronic Brake Controller

3 Pins, male, crimp-on

4 Electronic Brake Controller

Harness wiring		Controller wiring
black	2,5	battery „+“, black
white	2,5	ground „-“, white
red	1,5	stop switch, red
blue	2,5	brake output, blue



**A Connection of the Brake Controller Harness**

- (1) Harness VTS-7159
- (A) Left Cargo Area – connection to Trailer Hitch Harness VTS-7158
- (B) Battery Box
- (C) Possible Location for the Electronic Brake Controller (by others)

For installation questions please contact: [Customer Service](#)