

Recall Campaign Bulletin



Mercedes-Benz

Campaign No. 2023070017, August 2023

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: **Model C-Class (206 platform)**
Model Year 2022-2023

Inspect 12V and 48V Ground Connections

Mercedes-Benz AG (“MBAG”), the manufacturer of Mercedes-Benz vehicles, has determined that on certain Model Year (“MY”) 2022-2023 C-Class (206 platform) vehicles, the 12V and 48V ground connections might not meet current torque specifications. In this case, the wiring harness connector might not be tightened sufficiently which might increase the electric resistance of the connection. As a result, the temperature in this area could increase and a risk of fire cannot be ruled out completely. An authorized Mercedes-Benz dealer will inspect the fastening of the 12V and 48V ground connections and perform repairs, if necessary.

Prior to performing this Campaign:

- **VMI must be checked before performing campaigns to verify that the campaign is required on a specific vehicle. Always check for any other open campaigns, and perform accordingly.**
- Please review the entire Campaign bulletin and follow the repair procedure exactly as described.

Approximately 1,552 vehicles are affected.

Order No. P-RC-2023070017

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Inspect 12V and 48V Ground Connections

Test Procedure 1

1. Open hood.
2. Remove cover (1, **Figure 1**).

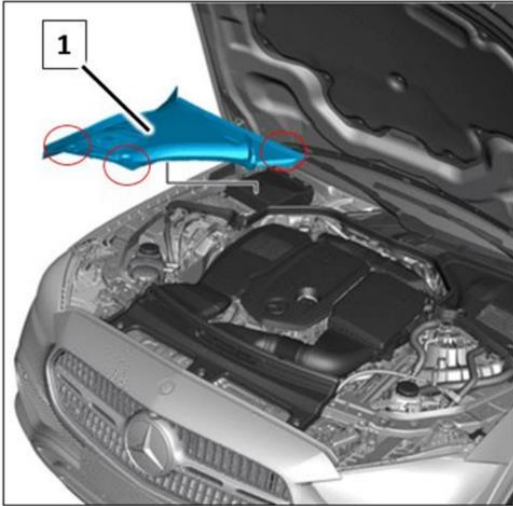


Figure 1, left-hand drive vehicle

3. Check threaded connections of ground points (**W106/3**, **W10**, **Figure 2**) for correct tightening torque.
 - 48 V battery ground point (W106/3) (see BA00.19-P-1039-01O) **16 Nm**
 - On-board electrical system battery ground point (W10) (see BA00.19-P-1012-01O) **16 Nm**

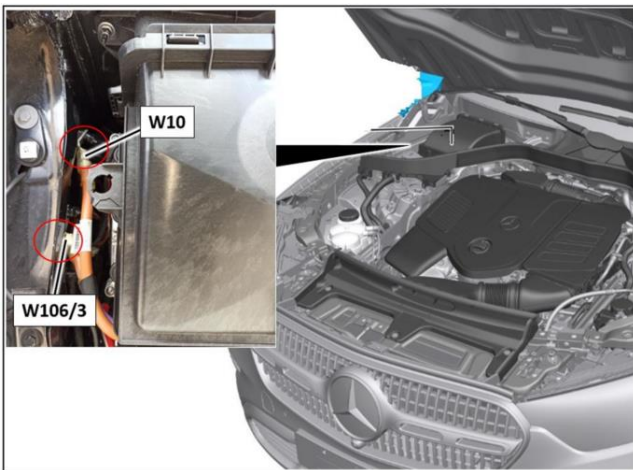


Figure 2, left-hand drive vehicle

- a. If torque is **not correct**. Carry out **Test Procedure 2**.
- b. If torque is **correct**. Carry out **Test Procedure 3**.

Test Procedure 2

1. Remove dust filter with air duct segment (2, Figure 3).

i For basic information, see AP83.00-P-8381N (except code 801/802) or AP83.00-P-8381J (with code 801/802).

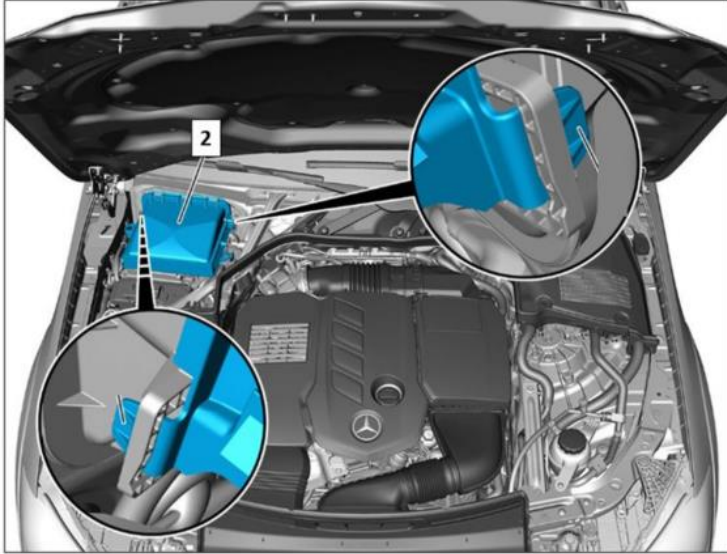


Figure 3, left-hand drive vehicle

2. Remove nut at respective affected ground point (W106/3, W10, Figure 4).



Figure 4, left-hand drive vehicle

3. Remove respective affected cable lug from weld stud.
4. Check respective affected electric line, contact areas, and weld stud for damage.

i See examples of the damage profiles (Figures 5 and 6).

- a. If there is **no** damage to the electric line, contact areas or weld stud: **Carry out Work Procedure 1.**
- b. If one or both electric line(s), contact areas or weld studs **are damaged**: **Carry out Work Procedure 2.**

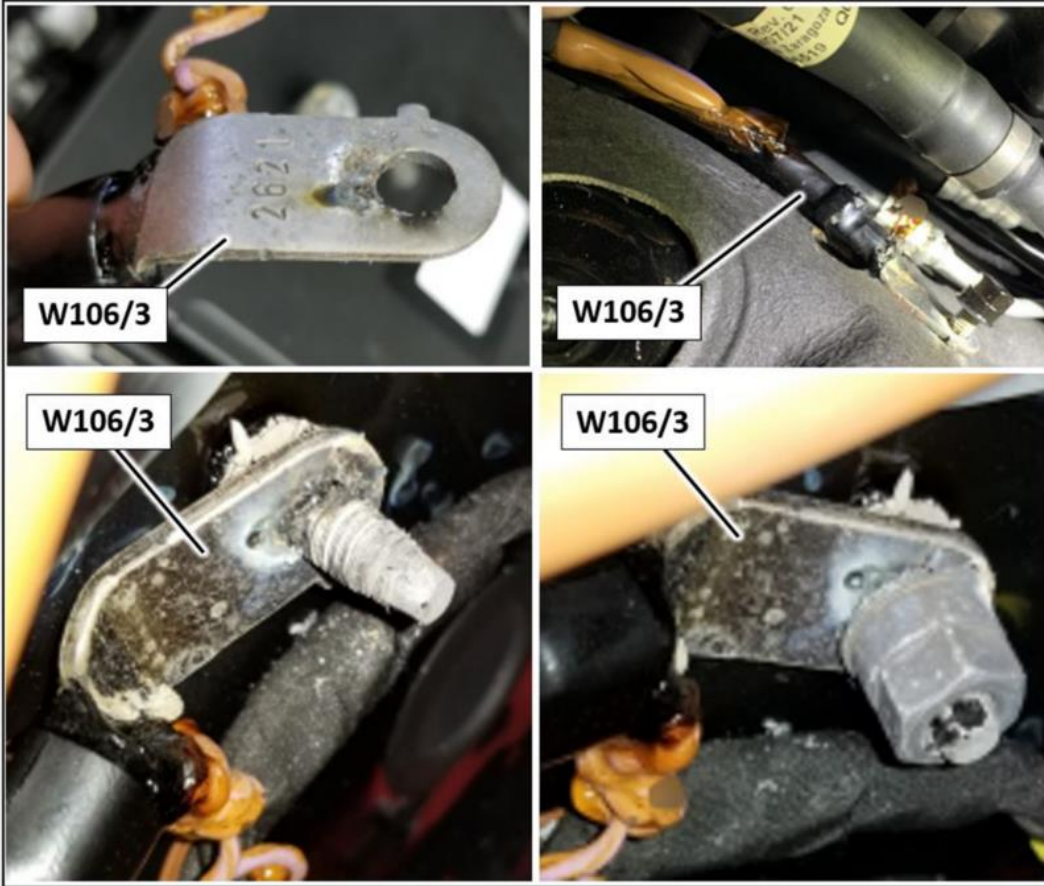


Figure 5, Example illustration of damage profiles for a 48 V battery ground point (W106/3)



Figure 6, Example illustration of damage profiles for an on-board electrical system battery ground point (W10)

Work Procedure 1

1. Replace respective nut and tighten with specified tightening torque.
 - 48 V battery ground point (W106/3) (see BA00.19-P-1039-01O) **16 Nm**
 - On-board electrical system battery ground point (W10) (see BA00.19-P-1012-01O) **16 Nm**
2. Assemble in reverse order.
3. Continue with **Test Procedure 3**.

Work Procedure 2

1. Remove battery of 48 V on-board electrical system.
i For basic information, see AR54.10-P-0022WT.
2. Replace damaged weld studs if necessary.
i For basic information, see AR60.00-P-0100A (The part number is listed in the WIS document).
3. Replace damaged electric line and nut if necessary and tighten with specified tightening torque.
 - 48 V battery ground point (W106/3) (see BA00.19-P-1039-01O) **16 Nm**
 - On-board electrical system battery ground point (W10) (see BA00.19-P-1012-01O) **16 Nm**
4. Assemble in reverse order.
5. Continue with **Test Procedure 3**.

Test Procedure 3

1. Remove rear engine compartment lining.
i For basic information, see AR61.20-P-1105WT.
2. Check threaded connections at ground points (**1, 2, W11/3, Figure 7**) for correct tightening torque.
 - Left combustion engine ground point (**W11/3, Figure 7**) **20 Nm**
 - Circuit 31 ground point with code B01 (**2, Figure 7**) **20 Nm**
 - Circuit 41 ground point, with engine 654 and with code B01 (**1, Figure 7**) **16 Nm**

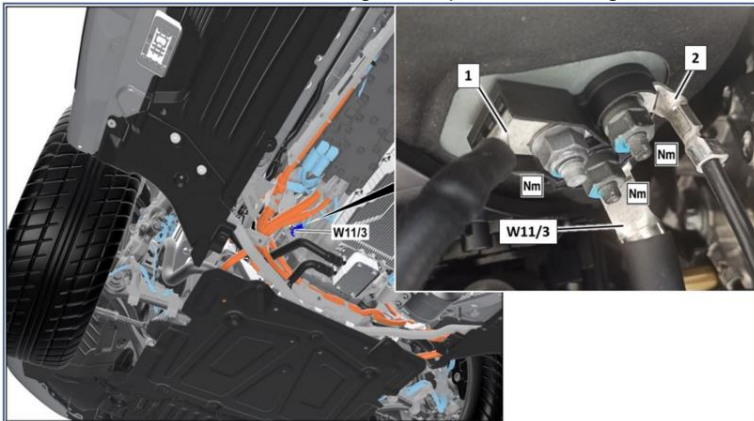


Figure 7

- a. If the torque is **correct**: **End measure**.
- b. If the torque is **not** correct: Carry out **Test Procedure 4**.

Test Procedure 4

1. Remove respective affected nut from ground point (**1, 2 or W11/3, Figure 7**) and perform a visual check of the affected electric line, contact area, and weld stud.

i See examples of the damage profiles (**Figure 8**).

- a. If contact area, weld stud, and electric line are **not** damaged: Carry out **Work Procedure 3**.
- b. If contact area, weld stud, and/or electric line are **damaged**: Carry out **Work Procedure 4**.

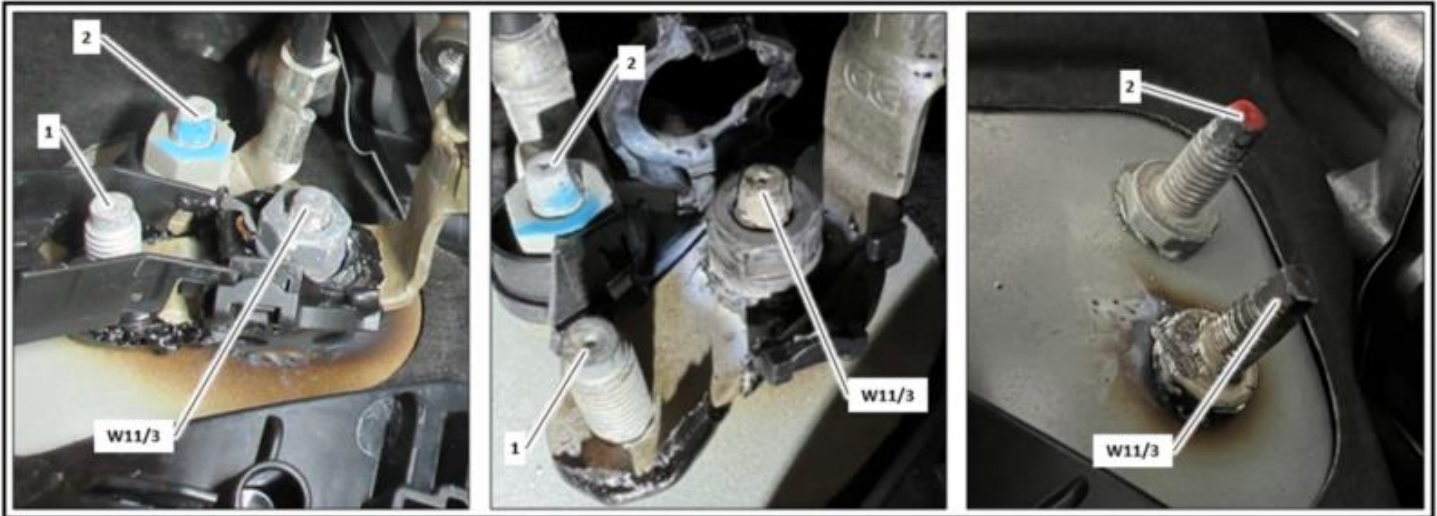


Figure 8, example illustration of damage profiles for ground point (1, 2, W11/3)

Work Procedure 3

1. Replace respective nut at ground point (**1, 2 or W11/3, Figure 7**) and tighten with specified tightening torque.
 - Left combustion engine ground point (**W11/3, Figure 7**) **20 Nm**
 - Circuit 31 ground point with code B01 (**2, Figure 7**) **20 Nm**
 - Circuit 41 ground point, with engine 654 and with code B01 (**1, Figure 7**) **16 Nm**
2. Assemble in reverse order.

Work Procedure 4

1. Replace damaged weld studs if necessary.

i For basic information, see AR60.00-P-0100A (The part number of the weld stud can be found here).
2. Replace damaged electric line and nut if necessary and tighten with specified tightening torque.
 - Left combustion engine ground point (**W11/3, Figure 1**) **20 Nm**
 - Circuit 31 ground point with code B01 (**2, Figure 1**) **20 Nm**
 - Circuit 41 ground point, with engine 654 and with code B01 (**1, Figure 1**) **16 Nm**
3. Assemble in reverse order.

Primary Parts Information

Qty.	Part Name	Part Number
As required (1)	Electric line to W106/3 and W10 (Left-hand drive vehicle)	*
As required (1)	Electric line for left combustion engine ground point (W11/3)	**
As required (1)	Electric line for terminal 31 ground point, with code B01	**
As required (1)	Electric line for circuit 41 ground point, with engine 654 and with code B01	**
As required (5)	Nut, M8	N 000000 008271

* The required electric lines can be found according to the vehicle identification number (VIN) in the XENTRY parts process under the main group **54 ELECTRICAL EQUIPMENT AND INSTRUMENTS** in **Picture chart 121, Picture number 320**.

** The required electric lines can be found according to the vehicle identification number (VIN) in the XENTRY parts process under the main group **54 ELECTRICAL EQUIPMENT AND INSTRUMENTS** in **Picture chart 030, Picture numbers 550, 720, or 850**.

i Small parts such as screws, lock nuts, sealing rings, cable ties, fluids, sealant, etc. are not listed in the parts list. The required small parts are taken into account in the budgeting.

i **Note:** *The following allowable labor operation should be used when submitting a warranty claim for this repair:*

Warranty Information

Damage Code	Operation Number	Description	Labor Time (hrs.)
54 911 08	12-1776	Operations: Check torque at ground points in engine compartment and vehicle underside	0.5
	12-1777	Operations: Perform visual check of affected ground point and line in engine compartment (after check)	0.2
	12-1778	Operations: Perform visual check of affected ground point and line at vehicle underside (after check)	0.2
	12-1809	Operations: Replace electric line and weld stud at an affected ground point (after check)	ZM

i **Note:** *Always check Xentry Operation Time (XOT) for the current OP-Code times. Labor times are subject to change and updates may not be reflected in this document.*