

Recall Campaign Bulletin



Mercedes-Benz

Campaign No. 2024070016, August 2024

TO: ALL MERCEDES-BENZ CENTERS

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

Inspect 12V and 48V Ground Connections

Mercedes-Benz AG, the manufacturer of Mercedes-Benz vehicles, has determined that on certain 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 5 vehicles are affected.

Order No. P-RC-2024070016

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Inspect 12V and 48V Ground Connections

Check/Test Procedure 1

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

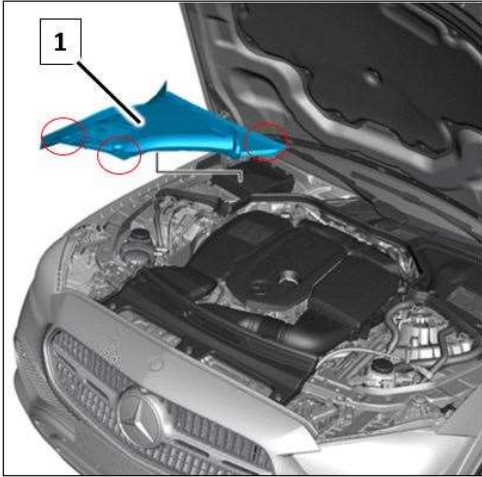


Figure 1

3. Check connections of ground points (Figure 2, W10 & W106/3) for correct tightening torque.

Nm 48 V battery ground point (W106/3) (see BA00.19-P-1039-01O) = **16 Nm**

Nm On-board electrical system battery ground point (W10) (see BA00.19-P-1012-01O) = **16 Nm**

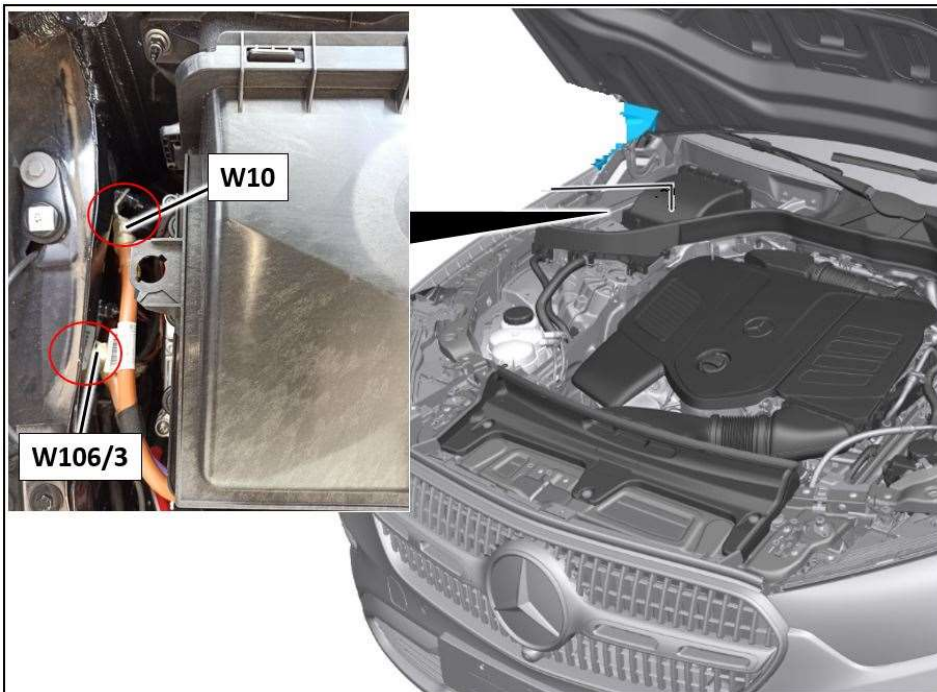


Figure 2

- a. If torque is **Not Correct**: Carry out **Check/Test Procedure 2**.
- b. If torque is **Correct**: Carry out **Check/Test Procedure 3**.

Check/Test Procedure 2

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

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

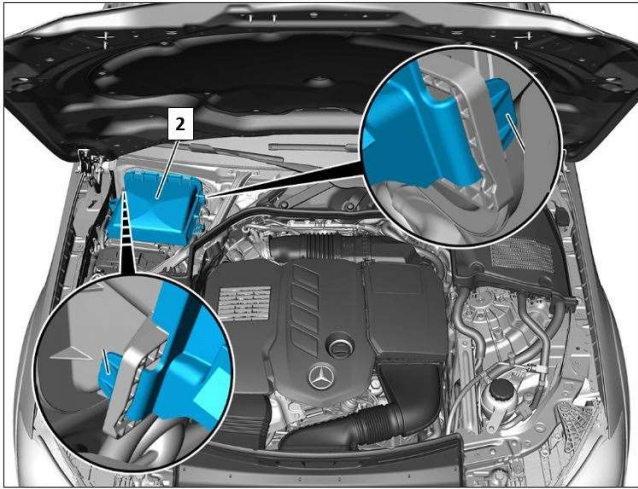


Figure 3

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



Figure 4

3. Remove respective affected cable lug from weld stud.
4. Check respective affected electric line, contact areas, and weld stud for **damage, such as arcing, scorch marks and/or melting**.

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

NOTE: Capture photos of damaged electric line, contact area, and/or weld stud to be included in Warranty claim

- 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.**

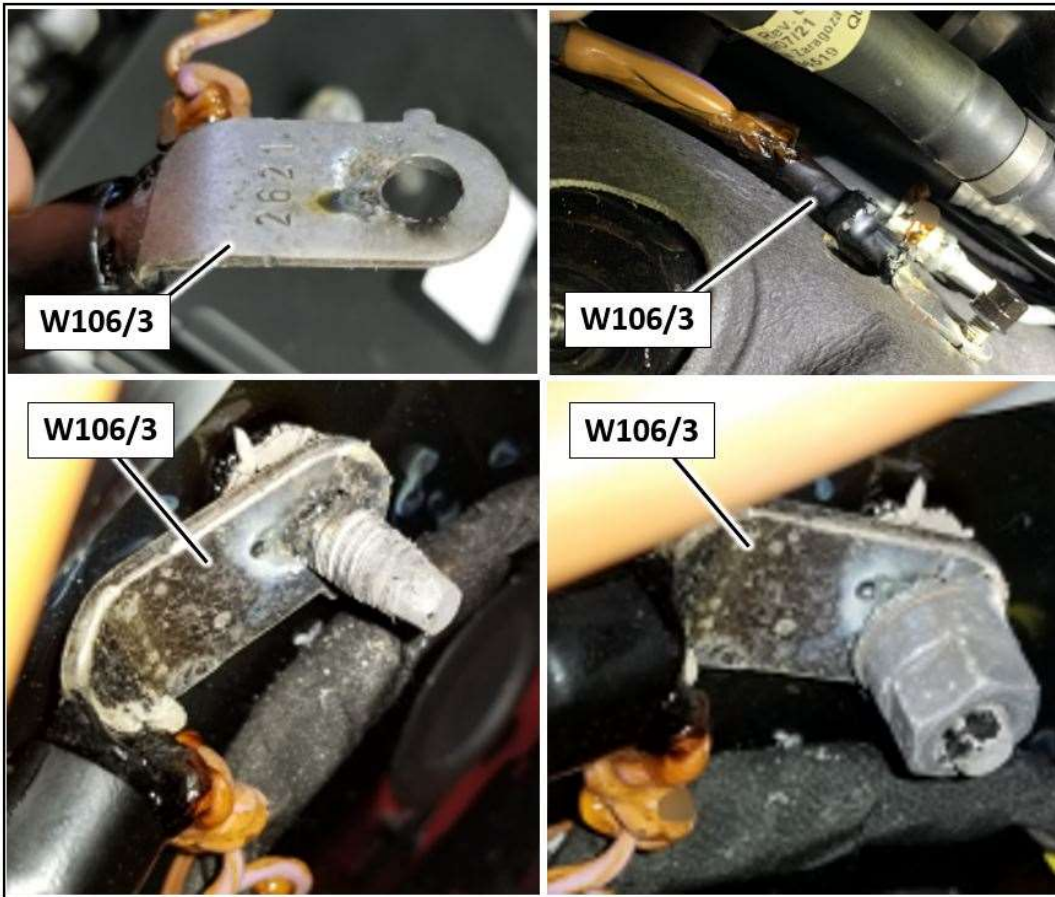


Figure 5, Examples of potential damage profiles of a 48 V battery ground point (W106/3)



Figure 6, Examples of potential damage profiles of an on-board electrical system battery ground point (W10)

Work Procedure 1

1. Replace respective nut and tighten with specified tightening torque.

Nm 48 V battery ground point (**W106/3**) (see BA00.19-P-1039-01O) = **16 Nm**

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 **Check/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 stud 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.


Nm 48 V battery ground point (**W106/3**) (see BA00.19-P-1039-01O) = **16 Nm**

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 **Check/Test Procedure 3**.


Check/Test Procedure 3


1. Remove rear engine compartment lining.

 For basic information, see AR61.20-P-1105WT.

2. Check threaded connections at ground points (**Figure 7, 1, 2, & W11/3**) for correct tightening torque.

 Left combustion engine ground point (**Figure 7, W11/3**) = 20 Nm

 **Circuit 31** ground point with code B01 (**Figure 7, 2**) = 20 Nm

 **Circuit 41** ground point, with engine 654 and code B01 (**Figure 7, 1**) = 16 Nm

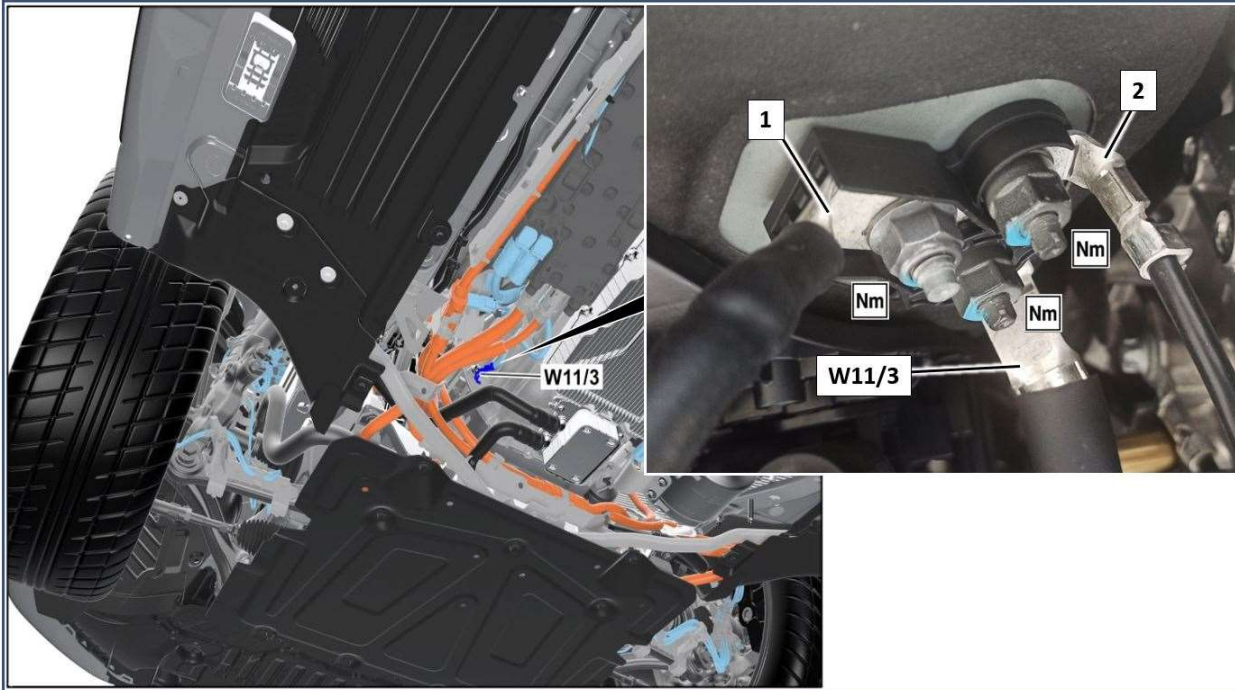


Figure 7

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

Check/Test Procedure 4

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

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

NOTE: Capture photos of damaged electric line, contact area, and/or weld stud to be included in Warranty claim

- 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**.

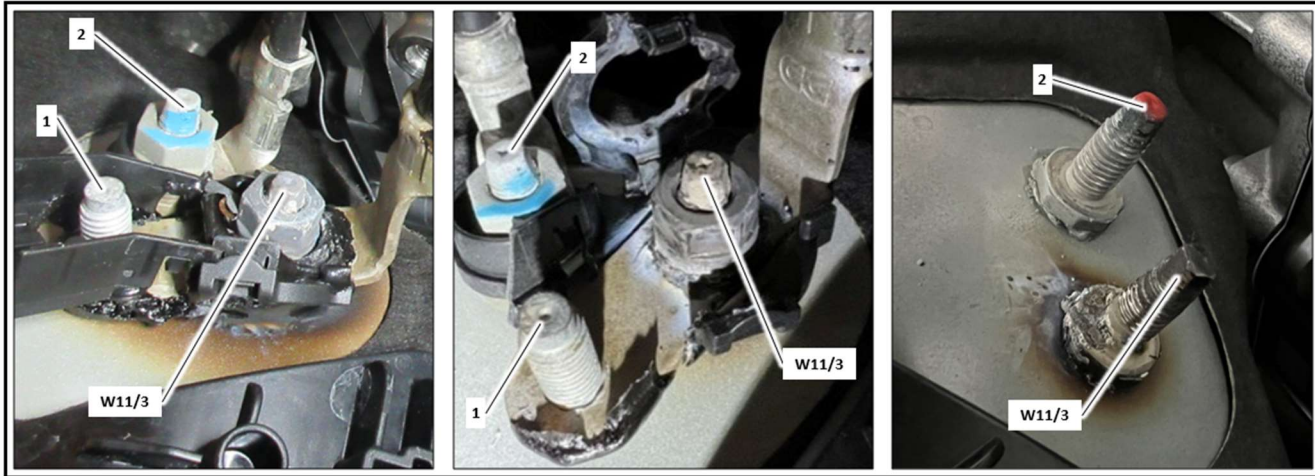


Figure 8, example of potential ground point damage profiles (1, 2, W11/3)

Work Procedure 3

1. Replace respective nut at ground point (**Figure 7, W11/3, 1, or 2**) and tighten with specified tightening torque.

Nm Left combustion engine ground point (**Figure 7, W11/3**) = 20 Nm

Nm Circuit 31 ground point with code B01 (**Figure 7, 2**) = 20 Nm

Nm Circuit 41 ground point, with engine 654 and with code B01 (**Figure 7, 1**) = 16 Nm

2. Assemble in reverse order.

Work Procedure 4

1. Replace damaged weld stud if necessary.

i For basic information, see AR60.00-P-0100A (The part number is listed in the WIS document).

2. Replace damaged electric line and nut if necessary and tighten with specified tightening torque.

Nm Left combustion engine ground point (**Figure 7, W11/3**) = 20 Nm

Nm Circuit 31 ground point with code B01 (**Figure 7, 2**) = 20 Nm

Nm Circuit 41 ground point, with engine 654 and with code B01 (**Figure 7, 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 | * |
| 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 (5) | Nut M8 | N 000000 008271 |

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

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 14 | 12-2205 | Operations: Check torque at ground points in engine compartment and on underside of vehicle | 0.5 |
| | 12-2206 | Operations: Perform visual check of affected ground point and line in engine compartment (after check) | 0.2 |
| | 12-2207 | Operations: Perform visual check of affected ground point and line on underside of vehicle (after check) | 0.2 |
| | 12-2208* | Operations: Replace electric line and weld stud at an affected ground point (after check) | ZM |

* Claims requiring pictures per respective OP-Code will be subject to denial

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.

i The following step applies to California dealers only.

Apply Proof of Correction Label (A 000 584 54 13) to area identified in **Figure 1**. Fill in the blank areas of the label. The “**Campaign No.**” for the California Proof of Correction is unique and must be entered as such (**240716**), your “**Dealer Code**”, and the “**Date**” of the repair, using a black permanent marker.

i Note: Clean bonding surface prior to affixing label.



Figure 1

i The following step applies to California dealers only.

Provide the owner with the completed and signed Proof of Correction Certificate (A 000 584 42 14) (**Figure 2**), after you scan a completed form and attach to the RO. The recall number for the California Proof of Correction Certificate is unique and must be entered as such (**240716**).

Figure 2

California Proof of Correction Parts Information

| Qty. | Part Name | Part Number |
|------|---------------------------------------------------|-----------------|
| 1 | Proof of Correction Certificate (CA Dealers Only) | A 000 584 42 14 |
| 1 | Proof of Correction Label (CA Dealers Only) | A 000 584 54 13 |

Warranty Information (California dealers please submit claim on a separate line of the same RO as the campaign)

| Damage Code | Operation Number | Description | Labor Time (hrs.) |
|-------------|------------------|-------------------------------------------------------------------------------|-------------------|
| 212CA 00 | 02-0001 | Apply Proof of Correction Label and completed Proof of Correction Certificate | 0.1 |