



Mercedes-Benz

Campaign No. 2017080002, September 2017

Revision A

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: **Models 117, 156, 205, 213, and 253; Model Years 2015-2017**
Retrofit Fuse on Starting Current Limiter

Daimler AG (DAG), the manufacturer of Mercedes-Benz vehicles, has decided that on certain CLA (117 platform), GLA (156 platform) C-Class (205 platform), E-Class (213 platform) and GLC (253 platform) vehicles, the starting current limiter could be overloaded under certain conditions during the starting procedure. In the event the starter is blocked due to engine/transmission damage (e.g. hydro locked engine), a very high electric current would flow through the starting current limiter during the subsequent start attempt. Should the driver attempt to start the engine repeatedly despite the engine not cranking, the very high electric current draw might lead to overheating of the starting current limiter. In a worst case, surrounding components might melt, and potentially ignite and lead to a fire. As a precautionary measure an authorized Mercedes-Benz dealer will install an additional fuse in the electrical line to the starter.

Special Tool (W 246 589 00 40 00) is required ONLY FOR MODELS 117 and 156.

DO NOT use the tool on models 205, 213 and 253. Using it on these models will damage the current limiter.

Prior to performing this Recall Campaign:

- Please check VMI to determine if the vehicle is involved in the Campaign and if it has been previously repaired.
- Please review the entire Recall Campaign bulletin and follow the repair procedure exactly as described.

Please note that Recall Campaigns **do not expire** and may also be performed on a vehicle with a vehicle status indicator.

Approximately **269,480** vehicles are involved.

Order No. P-RC-2017080002

This bulletin has been created and maintained in accordance with MBUSA-SLP S423QH001, Document and Data Control, and MBUSA-SLP S424HH001, Control of Quality Records.

Check/test procedure

1. Check whether a front-end relay or a voltage dip limiter is installed.
 - a. If the **front-end relay** (figure 1) is positioned horizontally on the positive pole, continue below with the work instruction for the appropriate model. .
 - b. If the **voltage dip limiter** (figure 2) is positioned **laterally** in a vertical position **at the battery**, the procedure is complete – no further action needed..
Do not install the electrical fuse on the **voltage dip limiter**!

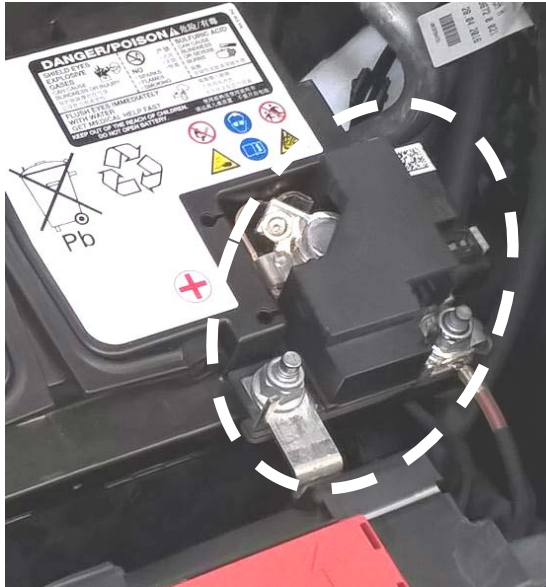


Figure 1 (front-end relay)

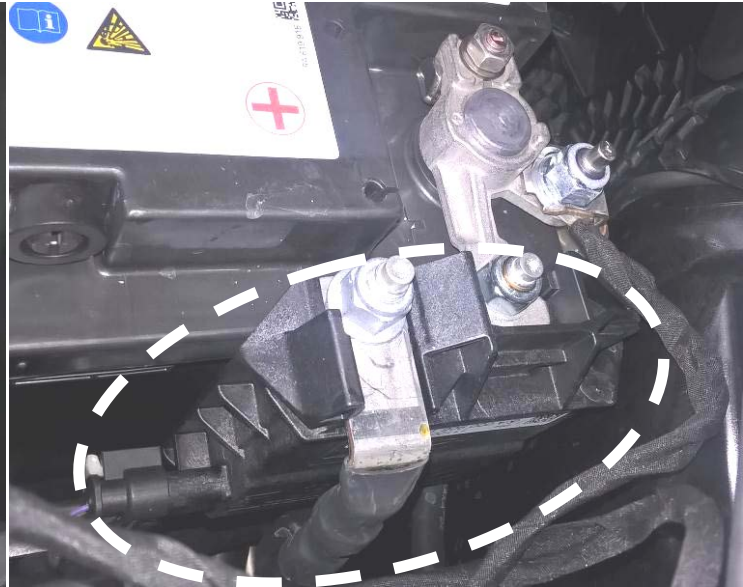


Figure 2 (voltage dip limiter)

i Document the **findings** from the check/test procedure on the RO.

Please note:

Below you will find two unique sets of work instructions. The first set is for 205, 213, and 253 (pages 3-5). Below that is the work instruction for 117 and 156 (pages 5-8).

Work instruction for 205, 253, and 213

1. Disconnect negative battery cable at on-board electrical system battery.

i Model 205, 253, and 213 see AR54.10-P-0003LW.

Nm Nut of battery cable to negative pole/positive pole of on-board electrical system battery **6 Nm**

i Secure the disconnected negative battery cable against unwanted contact.

2. Loosen the nut (A, figure 3) of the battery clamp on the positive pole.

i After loosening, the battery clamp must **rotate freely on the pole!**

Nm Nut of battery clamp for front-end relay to positive pole **6 Nm**

i **Tightening torque must be strictly observed!**



Figure 3

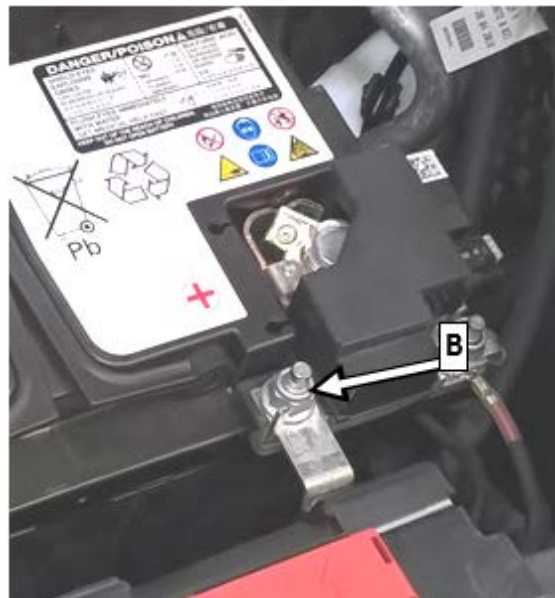


Figure 4

3. Unscrew the nut (B, figure 4) and remove the line.

Nm Nut of positive line/starter wiring harness to front-end relay **16 Nm**

i **Tightening torque must be strictly observed!**

4. Subsequently installing the electrical fuse between the front-end relay and starter line. (figure 5)

Nm Nut for electrical additional fuse to front-end relay **16 Nm**

i When tightening the additional fuse, ensure the front-end relay has a uniform distance to the battery!



Figure 5



Part No. A 117 545 09 00

5. On models **205, 253, and 213**, attach the starter line (E, figure 6) to the electrical additional fuse and tighten.

i The starter line must be **turned by 90° degrees** before fastening tight.

Nm Nut for starter line to front-end relay **16 Nm**

i When tightening the starter line, ensure the front-end relay has a uniform distance to the battery!

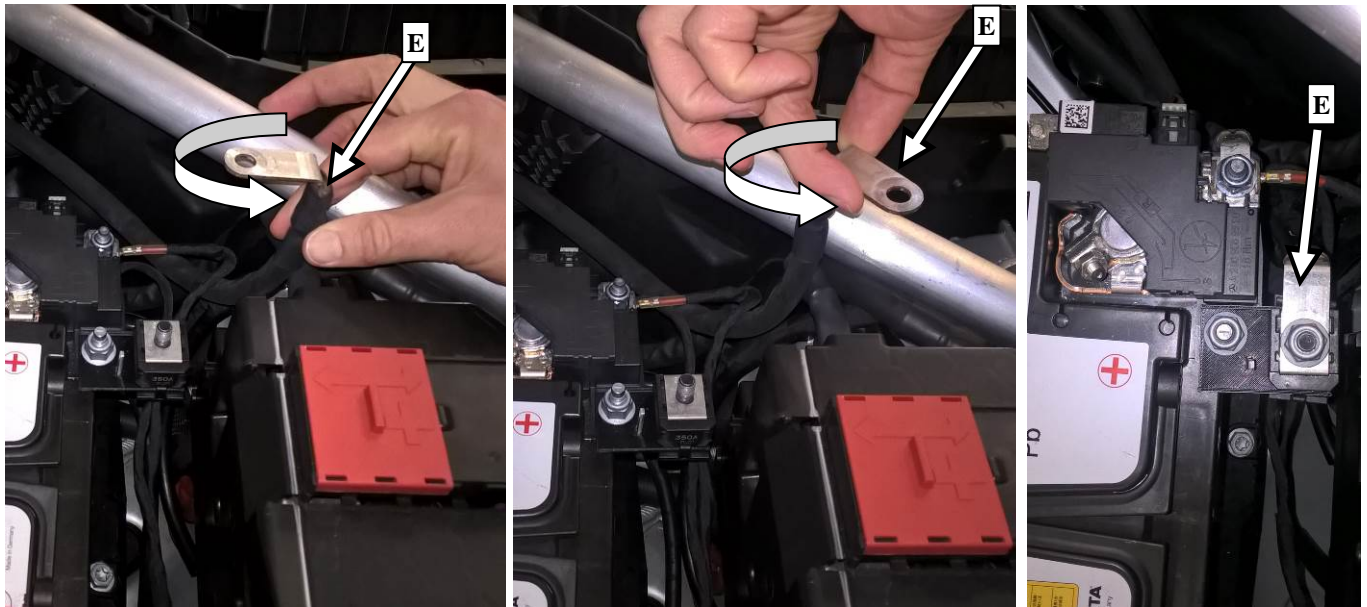


Figure 6

6. Tighten the nut of the battery clamp at the positive pole.
 - Nm** Nut of battery clamp for front-end relay to positive pole **6 Nm**
 - i** **Tightening torque must be strictly observed!**
 - i** When tightening the battery clamp, ensure the front-end relay has a uniform distance to the battery!
 7. Connect negative battery cable to on-board electrical system battery.
 - Nm** Nut of battery cable to negative pole/positive pole of on-board electrical system battery **6 Nm**
 8. Install remaining parts.
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Work instruction for 117 and 156

1. Disconnect negative battery cable at on-board electrical system battery.
 - i** Model 117 and 156 see AR54.10-P-0003NKB
 - Nm** Nut of battery cable to negative pole/positive pole of on-board electrical system battery **6 Nm**
 - i** Secure the disconnected negative battery cable against unwanted contact.
2. Loosen the nut (A, figure 2) of the battery clamp on the positive pole.
 - i** After loosening, the battery clamp must **rotate freely on the pole!**
 - Nm** Nut of battery clamp for front-end relay to positive pole **6 Nm**
 - i** **Tightening torque must be strictly observed!**



Figure 2

3. Only for model 117 and 156

Attach special tool **W 246 589 00 40 00** to the **starter line** and battery.

- i** Attach special tool **only on the cable** and **not on the front-end relay!**
- i** The special tool prevents the transfer of the loosening torque to the front-end relay when opening the screwed connection of the starter line (B, figure 3).
- i** **Carefully tighten the knurled nut** (C, figure 3) until the front-end relay lightly contacts the battery (D, figure 4).
- i** Do not over **tighten the knurled nut too much** so as to prevent damage to the front-end relay



Figure 3

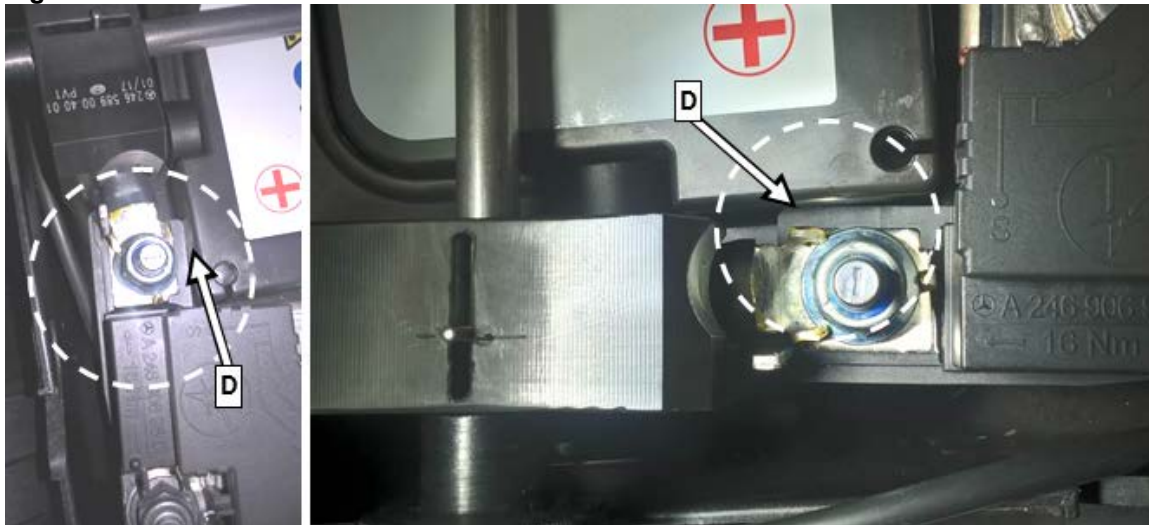


Figure 4

4. Unscrew the nut (B, figure 5) and remove the line, including the special tool.

Hm Nut of positive line/starter wiring harness to front-end relay **16 Nm**

i **Tightening torque must be strictly observed!**



Figure 5

5. Subsequently install the electrical fuse between the front-end relay and starter line.

Hm Nut for electrical additional fuse to front-end relay **16 Nm**

i When tightening the additional fuse, ensure the front-end relay has a uniform distance to the battery!



Figure 6



Part No. A 117 545 08 00

6. On models **117 and 156** attach the starter line (E, figure 8) to the electrical additional fuse and tighten.

i Install excess cable on models 117 and 156 as a downward U between the battery and the battery box.

The starter line **may not be pushed backward out of the battery box** as otherwise the chafe protection (F, figure 8) is moved.

i **Route the starter line free of tension.**

Hm Nut for starter line to front-end relay **16 Nm**



Figure 7

7. Tighten the nut of the battery clamp at the positive pole.

Hm Nut of battery clamp for front-end relay to positive pole **6 Nm**

i **Tightening torque must be strictly observed!**

i When tightening the battery clamp, ensure the front-end relay has a uniform distance to the battery!

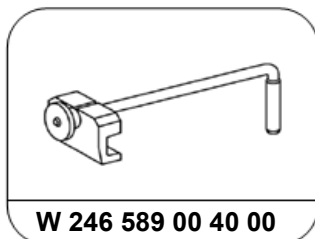
8. Connect negative battery cable to on-board electrical system battery.

Hm Nut of battery cable to negative pole/positive pole of on-board electrical system battery **6 Nm**

9. Install remaining parts.



Special Tools



Primary Parts Information

Qty.	Part Name	Part Number	Estimated Replacement Rate
2	Nut	N 000000 008271	100%
1	Starting current limiter (205,213,253)	A 117 545 09 00	100%
1	Starting current limiter (117,156)	A 117 545 08 00	100%

i Note:

- Please be aware that only the part number(s) referenced in the Campaign Bulletin is/are approved for use to repair the vehicle. Repairs performed using any other part(s) will not have been performed in accordance with the campaign. Accordingly, warranty claims submitted with reference to an improper part number(s) will be denied.
- The following allowable labor operation should be used when submitting a warranty claim for this repair:

Warranty Information

Operation: Check front-end relay (02-2046)
Subsequently installing an electrical fuse at the front-end relay (02-2047)
Includes: Disconnecting and connecting the ground line of the battery

If the additional fuse is installed, both Operation Numbers should be claimed.

Damage Code	Operation Number	Labor Time (hrs.)
15 900 38 8	02-2046	0.1
15 900 38 7	02-2047	0.1

i Note

Operation Number labor times are subject to change.