



Mercedes-Benz

Campaign No. 2021040013, May 2021

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: **Model AMG E-Class and AMG GT 4-door Coupe (213 and 290 platform)**
Model Year 2018-2021
Check Starter Wiring Harness

Mercedes-Benz AG ("MBAG"), the manufacturer of Mercedes-Benz vehicles, has determined that on certain MY 18-21 AMG E-Class (213 platform) and AMG GT 4-door Coupe (290 platform) vehicles with an AMG Gasoline-engine (M177) and 4MATIC all-wheel drive, the positive cable from the power supply to the starter motor might not have been installed according to current production specifications. An incorrect screw connection at the starter motor could cause the harness from the power supply to the starter to contact the starter housing. As a result, the insulated wires of the power supply harness could experience chafing over time due to vehicle movement, which could result in a short circuit. Depending on the nature of the short circuit, different vehicle functions may be affected, and the vehicle could stall, which could increase the risk of a crash. In addition, a risk of a fire cannot be ruled out. An authorized Mercedes-Benz dealer will check the screw connections at the starter and the position of the positive cable on the affected vehicles and correct them, if necessary.

Prior to performing this Recall Campaign:

- **VMI must always 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 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 493 vehicles are involved.

Order No. P-RC-2021040013

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 A

1. Remove lower engine compartment lining
 - i** For basic data for model 213, see **AR61.20-P-1105LWE**.
 - i** For basic data for model 290, see **AR61.20-P-1105FRX**.
2. Check starter wiring harness, circuit 30 (**A, figure 1**) at starter.
 - i** The starter wiring harness, circuit 30 must **not** be in contact with the solenoid switch (**B**) of the starter.

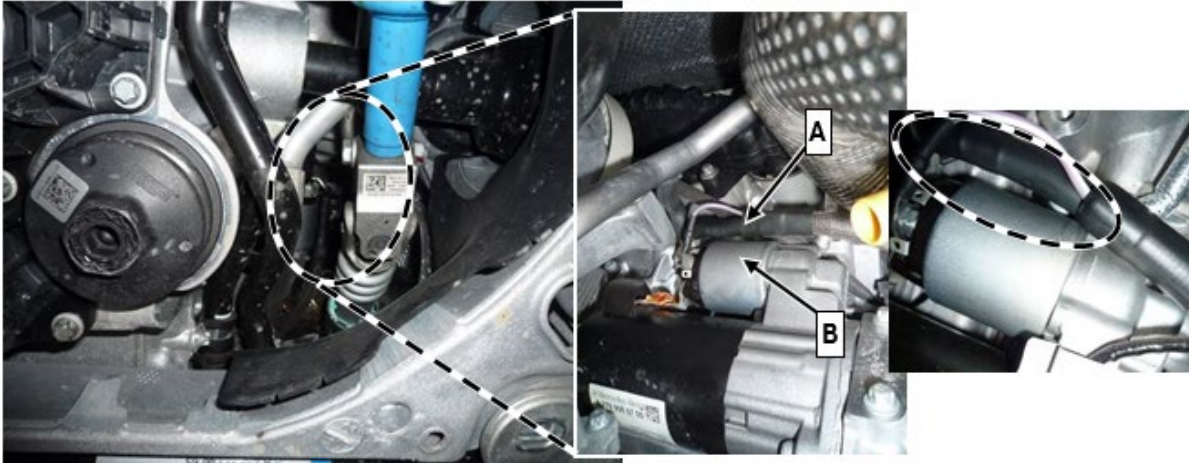


Figure 1

- a. Starter wiring harness, circuit 30 is in contact with starter: Carry out **check/test procedure B**.
- b. Starter wiring harness, circuit 30 is **not** in contact with starter: **End measure**.

i The **findings** from the check/test procedure must be recorded **in writing in the work order**

Check/test procedure B

1. Disconnect ground line of battery
 - i** For basic data for model 213, see **AR54.10-P-0003LW**.
 - i** For basic data for model 290, see **AR54.10-P-0003FR**.
2. Unscrew starter wiring harness, circuit 30 at starter and check for damage in area of insulation.
 - i** The insulation must **not** be damaged. To improve accessibility, remove the quick-release fastener of the steering shaft if necessary.
 - a. Insulation of starter wiring harness, circuit 30 damaged: Carry out **work procedure**.
 - b. Insulation of starter wiring harness, circuit 30 **not** damaged: **End measure**.

i If the insulation is **not** damaged, the starter wiring harness, circuit 30 **must** be reinstalled correctly and in such a way that it does not chafe, taking the anti-twist lock at the solenoid switch into account.

i The **findings** from the check/test procedure must be recorded **in writing in the work order**

Work procedure

1. Remove heat shield (C, figure 2) above busbar.



Figure 2

2. Remove cover (D, figure 3) of busbar and release starter wiring harness at circuits 30 and 50 (1, figure 3).

i Installation: Circuit 30 $\boxed{\text{Nm}}$ 17
 Circuit 50 $\boxed{\text{Nm}}$ 6A



Figure 3

3. Remove heat shield (E, figure 4).

i For basic data, see **AR09.40-P-6026MNG**. Do not drain coolant.

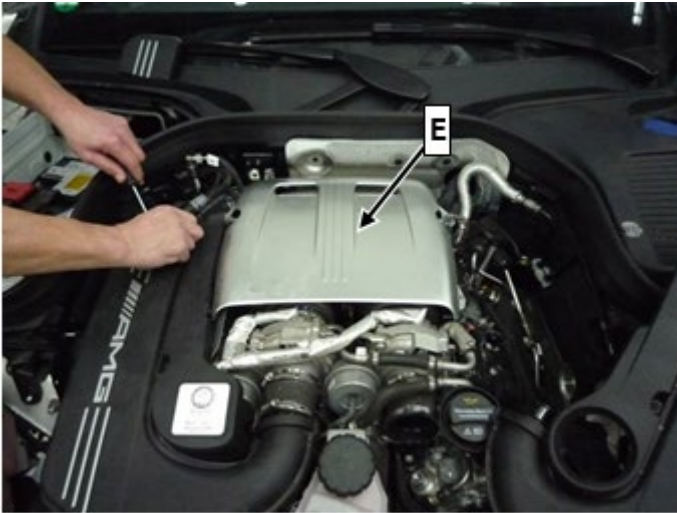


Figure 4

4. Remove heat shields (F, figure 5 and G, figure 6).



Figure 5

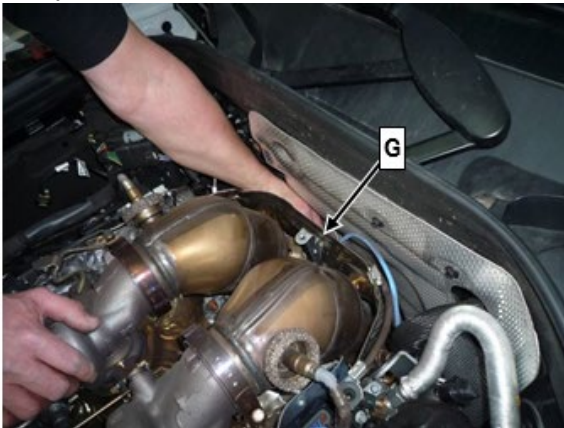


Figure 6

5. Release clamp (H, figure 7) at starter wiring harness from holder.

i Release clamp from underneath and slide in direction of arrow.

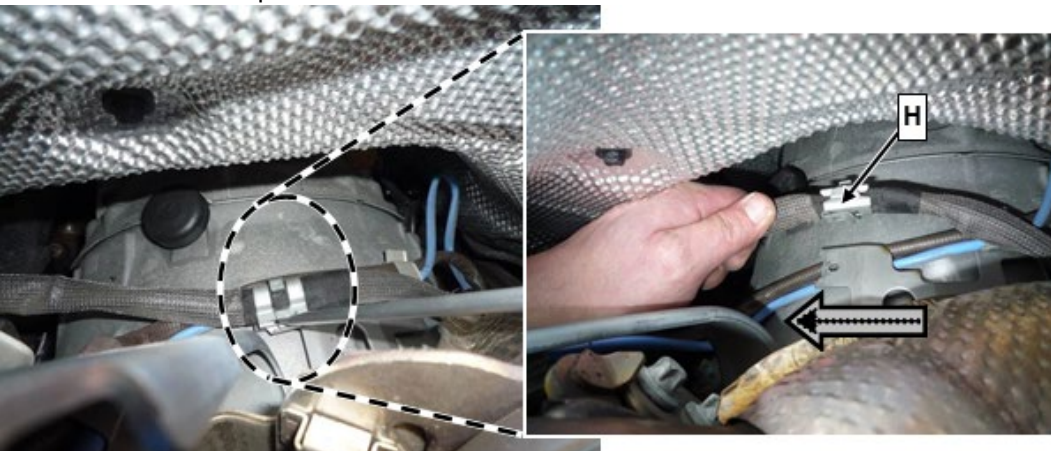


Figure 7

6. Release circuits 30 and 50 (1, figure 8) at starter.



Figure 8

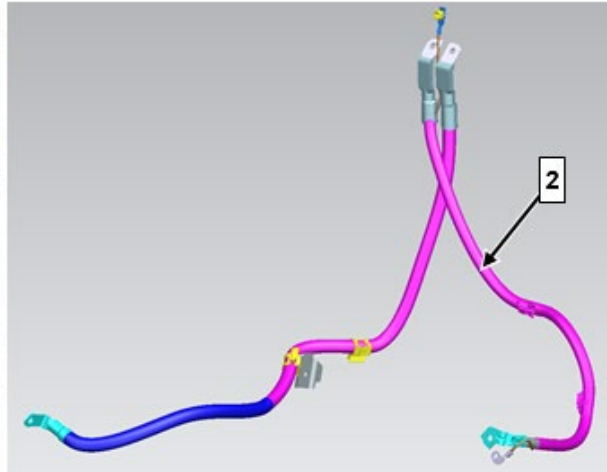


Figure 9

7. Release lower clamp of starter wiring harness from holder.

i Same procedure as described in operation step 5.

8. Remove starter wiring harness and replace.

i Only the electrical wiring harness (2, figure 9) from the busbar to the starter will be replaced. The wiring harness from the busbar to the alternator is **not** required.

i The starter wiring harness, circuit 30 must be reinstalled correctly and in such a way that it does not chafe, taking the anti-twist lock at the solenoid switch into account.

9. Assemble in reverse order.

Primary Parts Information

Qty.	Part Name	Part Number
As required*	El. wiring harness separating point to starter	A 213 540 07 27

* Only the electrical wiring harness from the busbar to the starter will be replaced.

The wiring harness from the busbar to the alternator is **not** required.

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

Warranty Information

Check/test procedure A

Operation: Check attachment of starter wiring harness to starter (02-1095)

Includes: Remove/install lower engine compartment lining

Damage Code	Operation Number	Labor Time (hrs.)
54 913 02 8	02-1095 model 290	0.3
	02-1095 model 213	0.5

Check/test procedure A and B

Operation: Check attachment of starter wiring harness to starter (02-1095)

Includes: Remove/install lower engine compartment lining

Check starter wiring harness (for damage) (02-1096)

Includes: Disconnect ground line of battery and unfasten/fasten starter wiring harness, circuit 30 from/to solenoid switch

Damage Code	Operation Number	Labor Time (hrs.)
54 913 02 8	02-1095 model 290	0.3
	02-1095 model 213	0.5
	02-1096 models 213 and 290	0.5

Check/test procedure A, B and replace

Operation: Check attachment of starter wiring harness to starter (02-1095)

Includes: Remove/install lower engine compartment lining

Check starter wiring harness (for damage) (02-1096)

Includes: Disconnect ground line of battery and unfasten/fasten starter wiring harness, circuit 30 from/to solenoid switch

Damage Code	Operation Number	Labor Time (hrs.)
54 913 02 7	02-1095 model 290	0.3
	02-1095 model 213	0.5
	02-1096 models 213 and 290	0.5
	02-1097	1.8



Note

Operation Number labor times are subject to change.