

Service Campaign Bulletin



Mercedes-Benz

Campaign No. 2018010012, April 2018

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: **Model 463 Model Year 2017**
Update engine control unit and install retrofit wiring harness

Daimler AG ("DAG"), the manufacturer of Mercedes-Benz vehicles, has determined that on certain MY17 G-Class (463 platform) vehicles, the Engine Control Unit (ECU) software and engine wiring harness may not meet series production specifications. An authorized Mercedes-Benz dealer will update the ECU software and retrofit the wiring harness for the affected vehicles.

Prior to performing this Service 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 Service Campaign bulletin and follow the repair procedure exactly as described.

Approximately 113 vehicles are affected.

Order No. P-SC-2018010012

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.

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Procedure

1. Prepare retrofit wiring harness (**figure 1**).

i **AR00.19-P-0100-04A** – Repair wiring harness by crimping in the case of watertight connections.

Crimp set **MQS ELA W220 589 01 99 86**

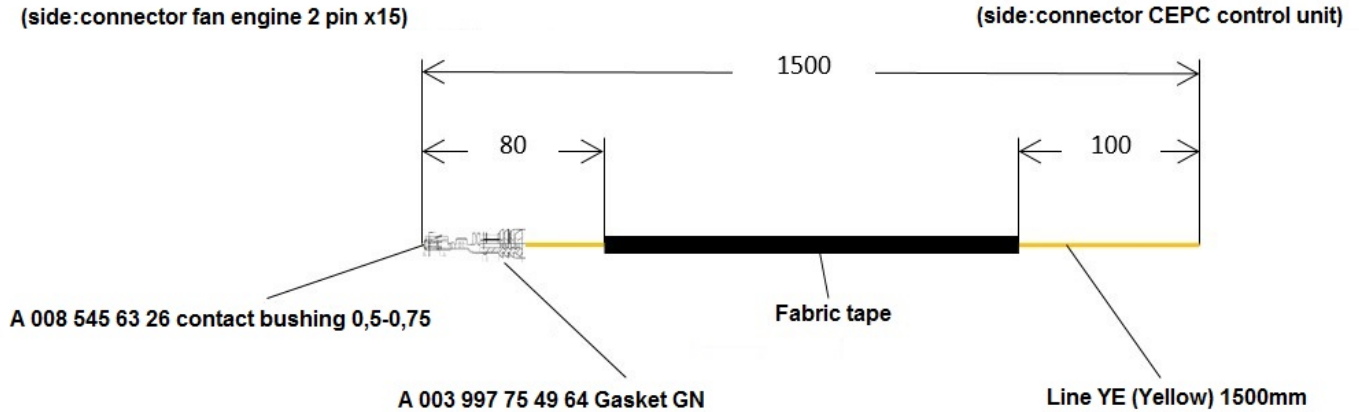


Figure 1

2. Detach ground line of battery (**AR54.10-P-0005GW**).

i The battery is located in the rear passenger compartment between the driver and the front passenger seat (**figure 2**).

3. Remove right-hand footwell trim (**figure 3**).



Figure 2



Figure 3

4. Remove right-hand front passenger floor lining and remove the CEPC control unit holder (**figure 4**).

 4 nuts.



Figure 4



Figure 5

5. Unplug center connector (**A, 4-pin**) on CEPC control unit (**figure 5**).

6. Remove air plenum chamber (**AR83.10-P-9998GW**).

7. Unclip radiator fluid expansion reservoir and, with lines still connected, tilt it to the side (**figure 6**).

 For basic data, see **AR20.30-P-4950MNA**.

8. Disconnect fan connector (**2-pin GN and PK/BU**) beneath the expansion reservoir (**figure 7**).



Figure 6



Figure 7

9. Unwrap the fabric tape from approx 80 mm of the 2-pin fan connector lines and unpin the line (**PK/BU, Pin 2**).

 Remove contacts from the Micro Quadlock system connector (**AR00.19-P-0120-04A**).

10. Shorten unpinned line (PK/BU) by 50 mm and insulate using a soldering splice (**1, A 000 982 91 10**) (**figure 8**).

i Strap down to existing wiring harness.

i **AR00.19-P-0100-09A** – Repair wiring harness using solder connectors.

11. Pin the prepared retrofit wiring harness (**B, figure 8**) into fan connector **Pin 2** and lock the plug.

12. Rewrap the lines using fabric tape and plug the 2-pin connector together with the fan wiring harness (**figure 9**).

i Fasten the fan wiring harness with the existing cable strap (**figure 10**).

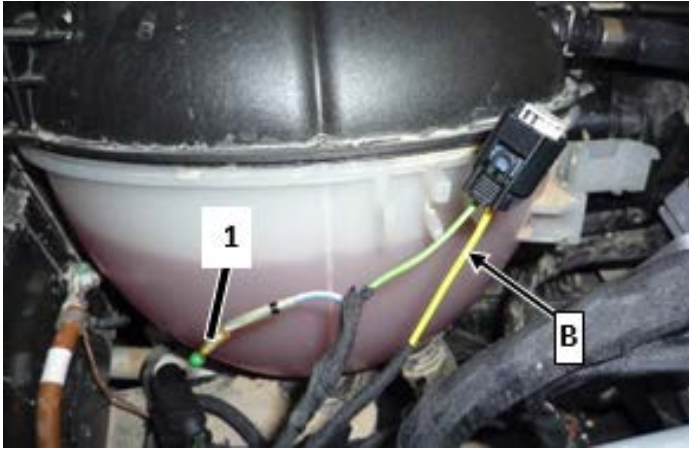


Figure 8



Figure 9



Figure 10

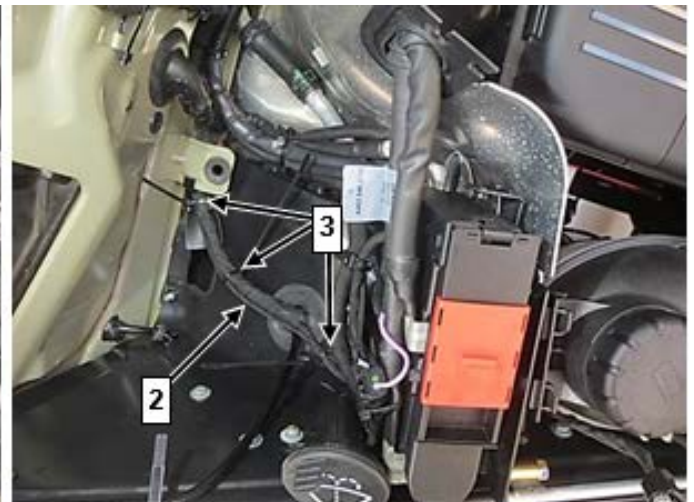


Figure 11

13. Route the retrofit wiring (**2**) along the wiring harness up to the firewall grommet (**figure 11**).

i Fasten using three cable ties **A 002 997 24 90** (**3, figure 11**).

14. Pull the retrofit line (2) through the firewall grommet at the existing wiring harness and route along it (figure 12).



Figure 12



Figure 13

15. Reinstall the firewall grommet (figure 13).

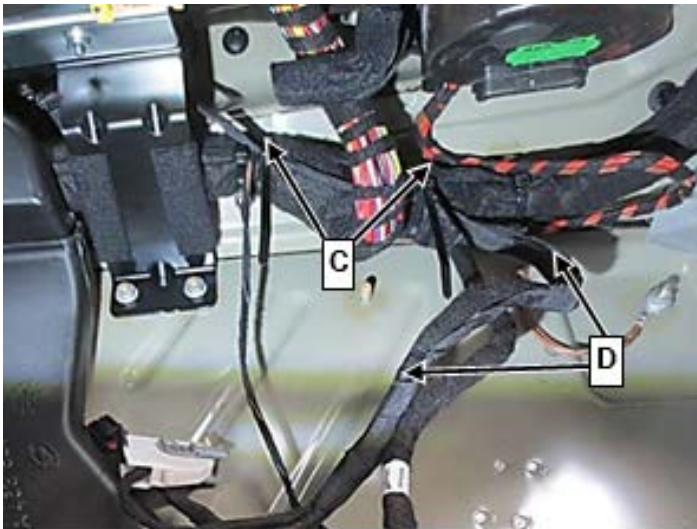


Figure 14

16. Route the retrofit line along the wiring harness in the interior compartment (figure 14).

- i** Fasten using cable tie (C, figure 14).
- i** Fasten to line using fabric tape (D, figure 14).

17. Unwrap approx. 100 mm of fabric tape at the connector (A, 4-pin) (figure 15).



Figure 15



Figure 16

18. Cut through RD/GN line (Pin 1) of the 4-pin connector on control unit CEPC after approx. 80 mm and remove insulation from line (figure 16).



Figure 17

19. Join line ends of the retrofit line and both ends of the RD/GN line using a soldering splice (A 000 982 92 10) and then rewrap the lines with fabric tape (figure 17). Plug the 4-pin connector back into the CEPC control unit.

i AR00.19-P-0100-09A – Repair wiring harness using solder connectors.

20. Assemble in reverse order.

21. Update engine control unit software.

i Note:

- Use DAS/Xentry 09/2017 with all associated patches or higher.
- Follow the steps exactly as described in DAS/Xentry.
- Connect battery charger (battery voltage  >12.5V).
- Ensure all electrical consumers are switched-off.
- In the event of software/SCN update issues, contact Star Diagnosis User Help Desk. Please refer to the “pre-call” check list before contacting UHD
- Refer to Star Diagnosis System (SDS) Best Practices Guide.

i To do so, select menu item "Control units view ➡ Drive type ➡ ME-SFI motor electronics ➡ Adaptations ➡ Control unit update ➡ Update of control unit software".

i Then follow the user guidance in XENTRY DIAGNOSIS/DAS.

Primary Parts Information

Qty.	Part Name	Part Number	Estimated Replacement Rate
1	Wire seal	A 003 997 75 49 64	100%
1	Soldering splice	A 000 982 91 10	100%
1	Soldering splice	A 000 982 92 10	100%
As required (5)	Cable tie	A 002 997 24 90 64	100%
0.1*	Fabric tape	A 006 989 84 85 10	100%
1	Bush 0.5–0.75	A 008 545 63 26	100%
1**	Line (yellow) 0.75 mm ² , 1,500 mm long		100%
* Use 1 packaging unit for 10 vehicles.			
** locally sourced part, clam as a sublet up to \$3.00.			

Warranty Information

Operation: Update engine control unit software (02-9334)
 Connect/disconnect vehicle diagnosis (02-4762)
 Connect/disconnect battery charger (02-5058)
 Prepare wiring harness for retrofitting and then retrofit (02-2145)

Damage Code	Operation Number	Labor Time (hrs.)
54 992 39 7	02-9334	0.1
	02-4762	0.1
	02-5058	0.1
	02-2145	1.7

i Note

Operation Number labor times are subject to change.

