Mercedes-Benz

Campaign No. 2022080010, September 2022

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: **Various Models**
Model Year 2019-2022

Check Transmission Wiring Harness Connector

Mercedes-Benz AG (MBAG), the manufacturer of Mercedes-Benz vehicles, has determined that on certain E-Class (213 platform), E-Class Coupe/Cabriolet (238 platform), CLS (257 platform) and AMG GT 4-door (290 platform) 4Matic vehicles, the transmission wiring harness might not be routed according to specifications. Tension on the transmission wiring harness could lead to wire insulation pulling back from the electrical connector and as a result, water could enter the connector. Water ingress could lead to a short circuit and/or thermal overload if the vehicle's ignition is off for longer periods of time. As a result, the risk of fire cannot be ruled out. Before the issue occurs, the driver may be alerted to the condition by illumination of the yellow battery (electrical charge) indicator lamp and/or the "4Matic malfunction" warning message in the instrument cluster. An authorized Mercedes-Benz dealer will check the electrical connector on the affected vehicles and rework it, if necessary.

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

Approximately 16,475 vehicles are affected.

Order No. P-RC-2022080010
This bulletin has been created and maintained in accordance with MBUSA-SLP S423QH001, Document and Data Control, and MBUSA-SLP S424HH001, Control of Quality Record

Recall Campaign Bulletin

Check electrical connector on automatic transmission oil pan and rework or replace if necessary

Check/test procedure

1. Remove rear underfloor paneling under transmission.

2. Disconnect electrical connector **X279** (A, figure 1) from the oil pan on the right side.

Figure 1

3. Check insides of the connector (B, figure 2 – vehicle side) and (C, figure 2 – transfer case side) for corrosion and other damage or noticeable problems.

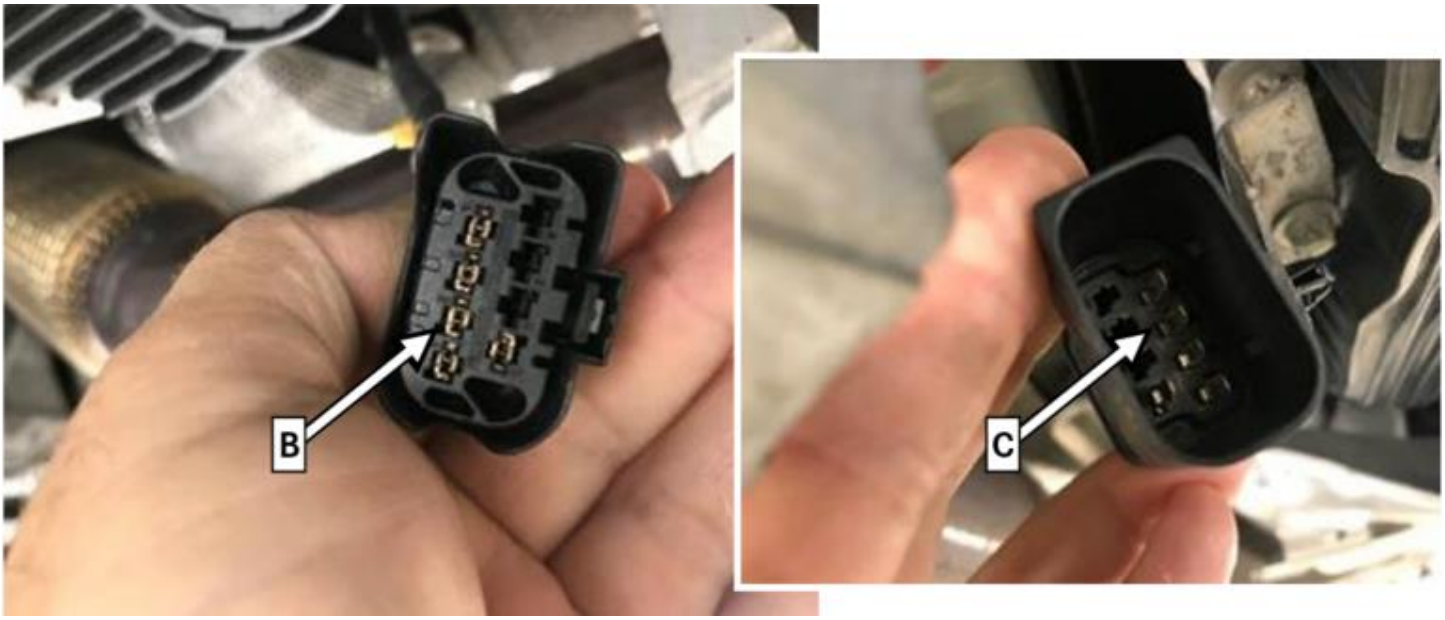

Figure 2

4. Check pins from the **vehicle side** wiring harness (B, figure 2) with the special tool **W 220 589 01 99 63** (figure 3). ***Unpin*** each individually, check for corrosion and damage such as wire melting or wire sealing lips (figure 4), ***and then pin back in***. DO NOT remove all pins at once.

- Equivalent commercially available unpinning tools can be used.
- **All pins may not** be unpinned from the plug housing **simultaneously**.
- The **pins must audibly engage** when reinserted.
- No damage or noticeable problems may be visible.
- No sealing elements may be damaged or melted at the cables.
- Sealing elements must be properly crimped in the cable lug.
  - See OK figure. Sealing lip must be visible.
- Figure 4 shows a *not OK* and OK sealing element**!**

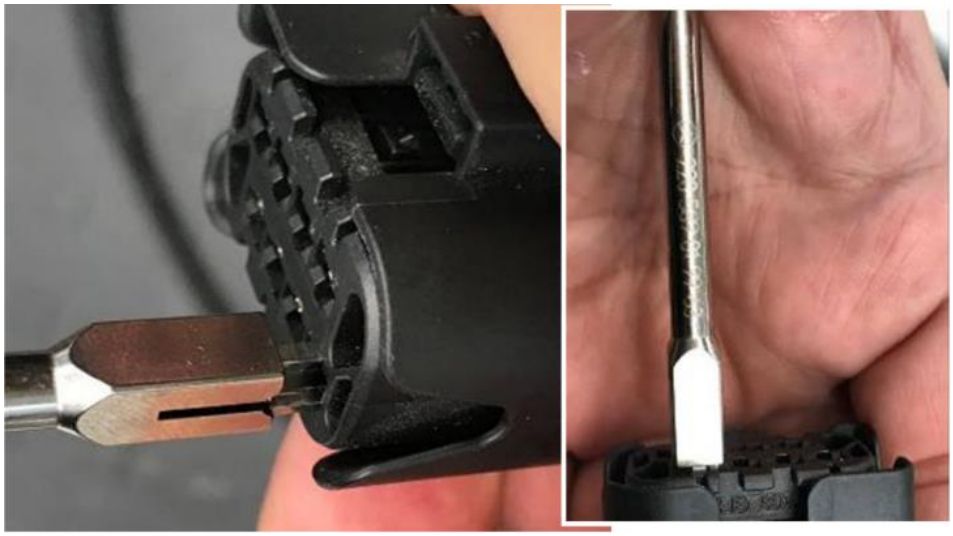

Figure 3

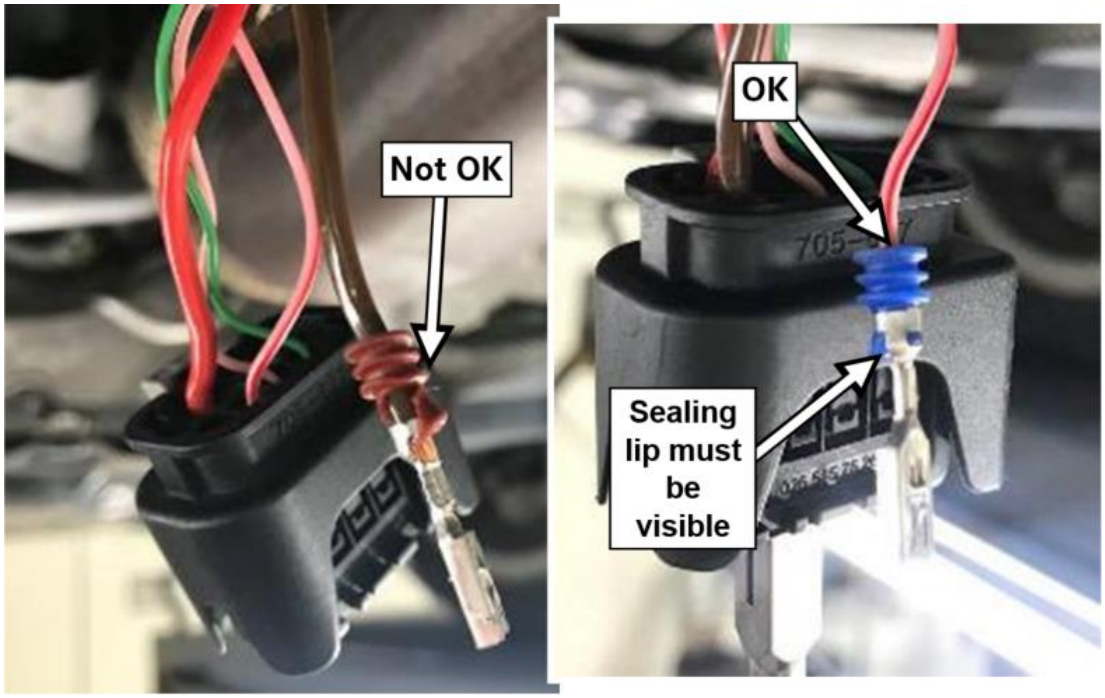

Figure 4 (***not OK*** **and OK** sealing element)

5. Check green blind plugs (D, figure 5) on the rear side of the connector for proper seating, rework if necessary.

i If the connector and the blind plug has no damage and are out of place, the blind plugs need to be pressed into its proper position.

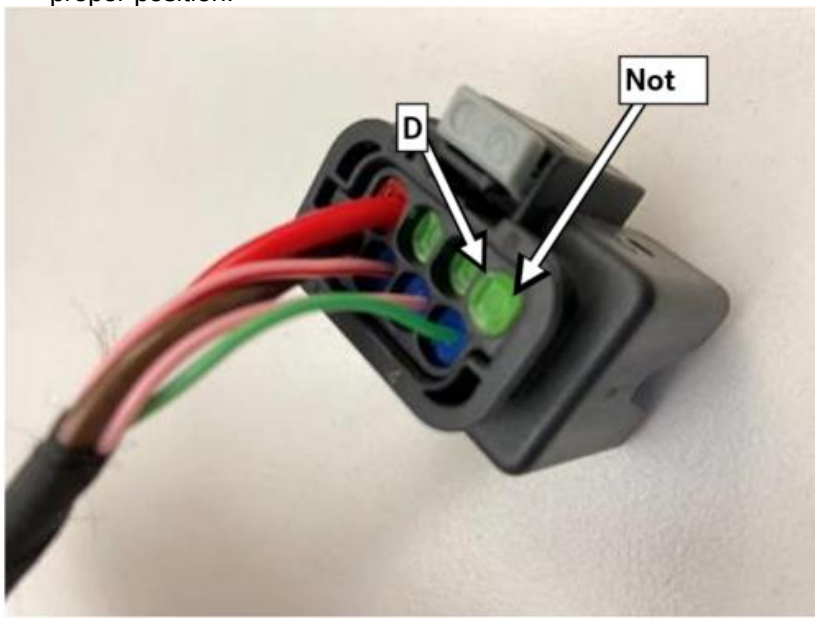

Figure 5

6. Based on the inspection results, use the following work scopes:

- **a.** If pins, cables, sealing and plug housing show ***no*** damage: Carry out **scope of work A**.
- **b.** If pins, cables, sealing, or plug housing show damage: Carry out **scope of work B**.
- **c.** If transfer case wiring harness shows damage: Carry out **scope of work C**.

Work Procedure A

1. Attach new additional wiring harness bracket (E, figure 6) with new screw to transmission oil pan.

i Threaded bushing is already present in the oil pan.

Nm Wiring harness bracket to transmission oil pan **8 Nm**.

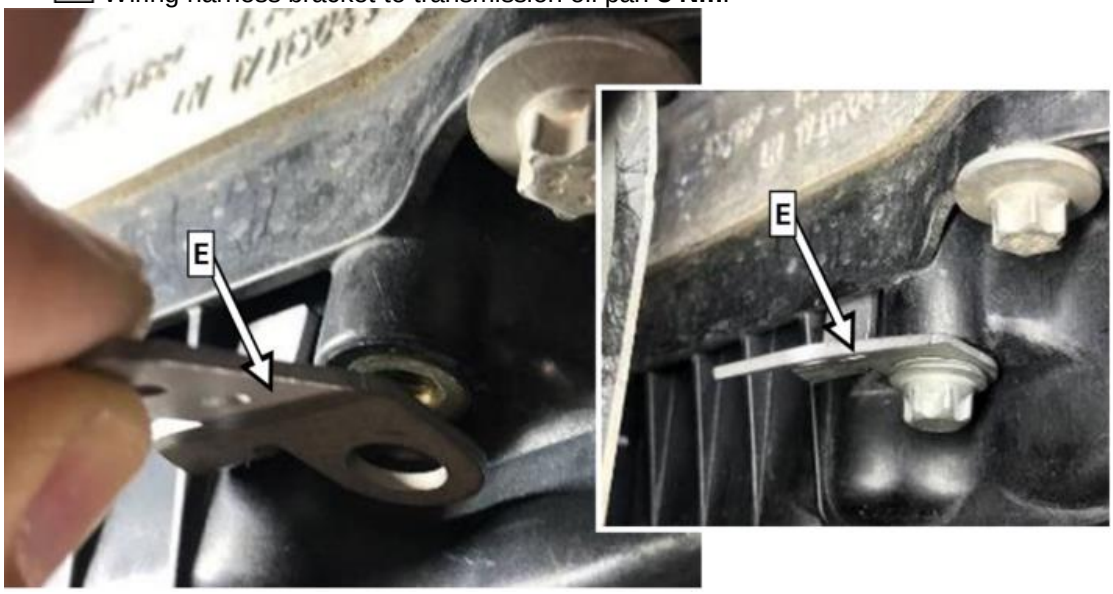

Figure 6

2. Remove retaining clamp and cable tie from the vehicle-side wiring harness.

3. Attach retaining clamp with **new** cable tie (figure 7) to new wiring harness bracket in direction of travel from rear up to end stop.

i Retaining lugs of the retaining clamp engage in the bores of the bracket.

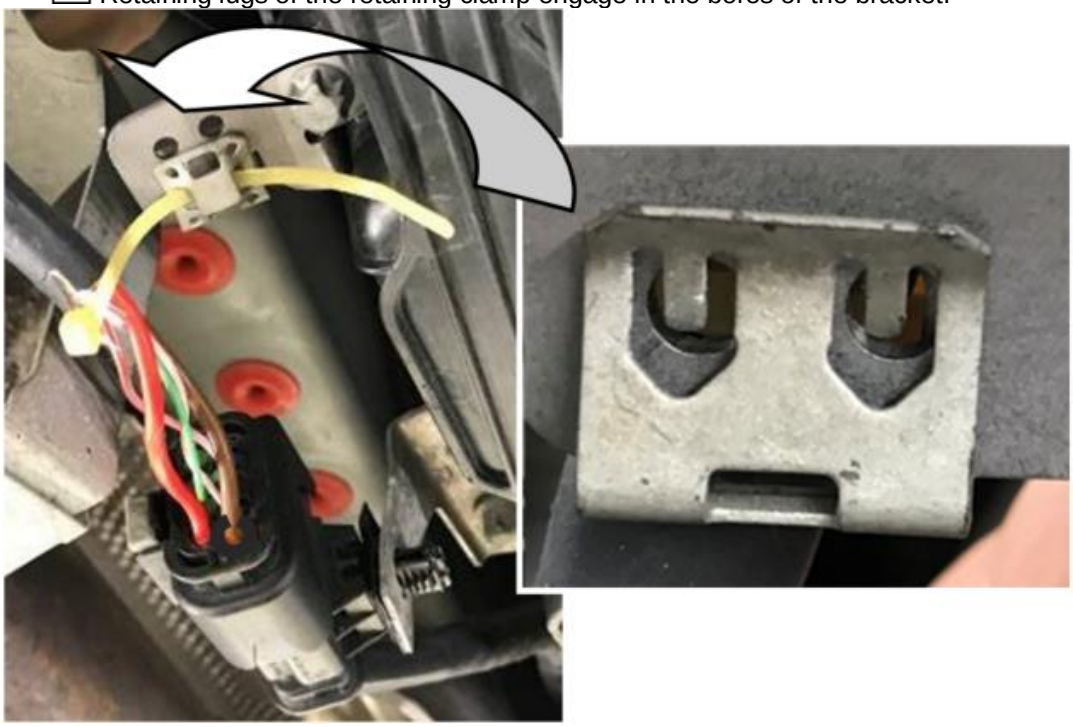

Figure 7

4. Connect connector (figure 8) and allow secondary locking mechanism to engage.

5. Fasten wiring harness without tension with a new cable tie (figure 8) to the new bracket of the wiring harness.

Figure 8

Work procedure B

If ***damage*** to the pins, cables, sealing, or plug housing is present, the vehicle-side wiring harness must be always repaired with the **repair wiring harness**.

1. Disconnect ground line of the 12 V on-board electrical system battery.
   For basic data see AR54.10-P-0003*
   * Select the WIS document according to the vehicle model.

2. Disconnect the vehicle-side wiring harness in the denoted area (F, figure 9), strip and connect it with the repair wiring harness using a line connector.
   Repair wiring harness by means of a line connector, see AR00.19-P-0100-09A.

Figure 9

3. Attach additional bracket as described in work procedure A and fasten wiring harness.

Work procedure C

If the **transfer case wiring harness** is damaged, it must be completely replaced.

1. Remove rear crossbar transmission.
   Secure transmission against tilting.

2. Unclip the transfer case-side wiring harness on the bracket of the automatic oil pan, unclip the transfer case and disconnect it from the variable transfer case control unit.
   To disconnect the control unit the heat shield must be gently pushed down.

Figure 10

3. Replace transfer case-side wiring harness.

4. Assemble in reverse order.

5. Attach additional bracket as described in work procedure A and fasten wiring harness.

Primary Parts Information

Qty.	Part Name	Part Number
1	Screw	N 910143 006001
1	Bracket	A 290 545 69 00
1	Cable tie	A 006 997 35 90
As required (1)	Repair kit (wiring harness incl. connector coupling)	A 290 540 99 14
As required (2)	Line connector (red)	A 000 982 92 10
As required (3)	Line connector (green)	A 000 982 91 10
As required (1)*	Tape	A 002 983 64 13
As required (1)	Wiring harness transfer case	A 213 540 32 69

*** 1 container is to be used for approx. 10 vehicles.**

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.

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.)
54 913 09	**02-0133**	Check electrical connector on oil pan automatic transmission **Includes:** Scope of work A - retrofit wiring harness bracket	0.6
	02-0134	Repair vehicle wiring harness (after check) **Includes:** Work procedure B	0.5
	02-0135	Replace transfer case wiring harness (after check) **Includes:** Scope of work C	0.7

* Invoice operation item only once for each workshop order.

Note: *Always check ASRA for the current OP-Code times. Labor times are subject to change and updates may not be reflected in this document.*