



Mercedes-Benz

Campaign No. 2021030006, April 2021

TO: ALL MERCEDES-BENZ & FREIGHTLINER CENTERS

SUBJECT: **Model 907 Sprinter, Model Year 2019-2020**
Electric Parking Brake Rear Brake Calipers

Mercedes-Benz AG (“MBAG”), the manufacturer of Mercedes-Benz and Freightliner vans, has determined that on certain Sprinter vehicles from platform 907 (VS30) equipped with an electrical parking brake (EPB), if the EPB is used frequently, then over time, the brake caliper of the rear axle may leak brake fluid into the housing of the electric parking brake that is connected to the rear axle service brake system. This could allow air to enter the hydraulic brake system which could lead to extended brake pedal travel and a changed brake pedal feel. If the condition is not addressed, the risk of a crash could increase. MBUSA/DVUSA is conducting a voluntary recall. An authorized Mercedes Benz or Freightliner dealer will replace the rear brake calipers.

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 **9,094** vehicles are involved.

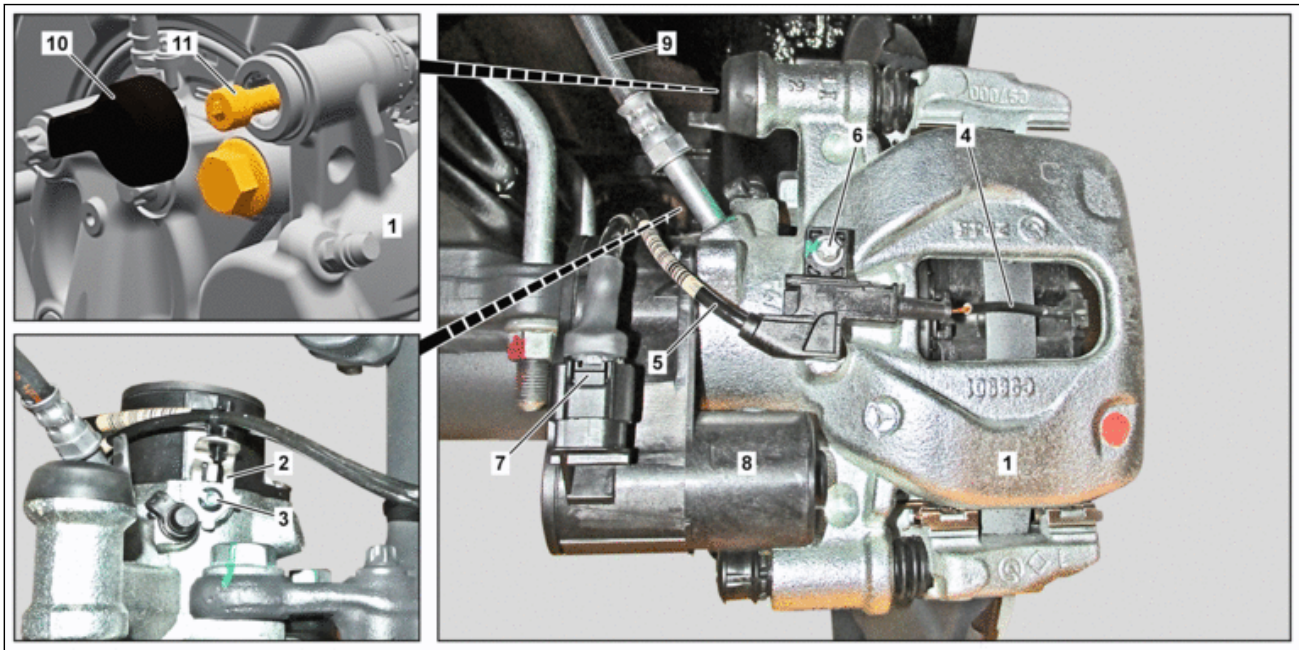
Order No. V-RC-2021030006

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.

Model 907, 910
with code B25 (Electric parking brake)

Operation no. of the operation texts or standard texts and flat rates







Category	Op. no.	Operation text	Time	Acc. no.	Code
L	02 1250	Operations: Replace 2 brake calipers of rear axle	2.3hrs	42 960 93	VS3BREPB
L	02 1586	Operations: Extra work for removing/installing 2 wheel and tire assemblies during installation with wheel lift dolly	0.2hrs	42 960 93	VS3BREPB
L	02 1285	Operations: Extra work for bleeding hydraulic brake system (after repair work) on veh. with manual transmission	0.1hr	42 960 93	VS3BREPB
L	02 1286	Operations: Perform brake test stand run	0.1hr	42 960 93	VS3BREPB
L	02 3282	Operations: Remove underfloor paneling (when working on veh.)	0.2hrs	42 960 93	VS3BREPB
L	02 3283	Operations: Remove lower engine compartment lining (when working on vehicle)	0.2hrs	42 960 93	VS3BREPB



















D42.10-A004-79













- | | | | | | |
|---|---------------------------|---|---------------------------|----|------------|
| 1 | Brake caliper | 5 | Electrical wiring harness | 9 | Brake hose |
| 2 | Bracket | 6 | Screw | 10 | Dust cap |
| 3 | Screw | 7 | Electrical connector | 11 | Screw |
| 4 | Electrical wiring harness | 8 | Actuator motor | | |

Replace both rear-axle brake calipers, along with actuator motors of electric parking brake.
 Replacement of wear or damaged parts must be invoiced separately.

 Danger	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
 Danger	Risk of accident when commissioning the vehicle due to a lack of braking effect when the service brake is operated for the first time after repair work.	Before starting the engine, actuate brake pedal several times until pressure is built up and maintained in the brake system.	AS42.50-Z-0002-01A
 Warning	Risk of injury. Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
 Caution	Risk of poisoning from swallowing brake fluid. Risk of injury from skin and eye contact with brake fluid	Only pour brake fluid into suitable and appropriately marked containers. Wear protective clothing and eye protection when handling brake fluid.	AS42.50-Z-0001-01A
Topical note	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
Topical note	Notes on repairs to brake system		AH42.00-P-0003-01A
Topical note	Brake fluid notes		AH42.50-P-0001-01A
Topical note	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
Topical note	Notes on bleeding brake system		AH42.10-N-0002-01A
Topical note	Notes on carrying out repair work in the vehicle interior		AH68.00-N-0001-01S
 Check			
1	Check, whether the vehicle is affected by the measure.	Affected vehicles: Replace brake calipers on rear axle (code: VS3BREPB, acc. no.: 42 960 93) Model 907.### ## as of 000025 up to 322015  For authorized Mercedes-Benz service partners, only the entry in the Extended VEGA Application (EVA) system, in the "Current" tab, is decisive. An additional test of the affected vehicles in the workshop information system (WIS) or vehicle list is thereby not necessary.	SM42.10-D-0046-01AAA SM42.10-D-0046-01AAB

	Remove		
2	Clean area surrounding cap of brake fluid reservoir.	Assembly cleaner	BR00.45-Z-1028-04A
3	Remove cap from brake fluid reservoir.		
4	Check fill level in brake fluid reservoir.	 <p>The fill level must not be above the maximum marking. This prevents the brake fluid reservoir from overflowing when the brake pistons are pushed back. If the fill level in brake fluid reservoir is too high, ↓ extract brake fluid.</p>  <p>Commercially available devices/ tools Extraction bellows</p>	
5  AR	Move rear axle brake pads into assembly position.	 <p>Do not operate the service brake while "Move to assembly position" is shown. Otherwise, the spindle of the brake caliper (1) will be damaged.</p>	AR42.10-D-1710-01TS
6  AR	Remove rear wheels.		AR40.10-D-1100TS
7	Remove electrical wiring harness from holder (2).		
8	Disconnect electrical wiring harness (4) from electrical wiring harness (5) to electrical connector.		
9	Remove electrical wiring harness (5) from brake caliper (1).	 <p>To do this, remove screw (6).</p>	
10	Disconnect electrical connector (7) from actuator motor (8).		
11  AR	Remove brake pads on rear axle.	 <p>Reuse brakepads.</p>	AR42.10-D-1710TS
12  AR	Remove brake hose (9) on vehicle side.		AR42.10-D-0023TS
13	Remove dust cap (10).		

14	Remove brake caliper (1).	<p>i To do so, remove screw/bolt (11). Replace bolt (11).</p> <p>i When replacing brake calipers (1), only install brake calipers (1) from the same manufacturer and model on an axle.</p>	
	Check		
15	Check brake hose (9) for damage.	<p>If damage exists, ↓ Replace brake hose (9) subject to separate invoice.</p>	AR42.10-D-0023TS
			
16	Modify brake hose (9).		AR42.10-D-0023TS
			
	Install		
17	Install new brake caliper (1).	<p>i To do so, screw in new bolt (11).</p> <p>Nm Screw/guide pin, brake caliper to brake caliper support</p>	BA42.10-N-1006-12TS
18	Install dust cap (10).		
19	Install brake hose (9) on vehicle side.	<p>i Do not yet bleed brake system.</p>	AR42.10-D-0023TS
			
20	Install old brakepads of rear axle.	<p>i Do not operate brake pedal yet.</p>	AR42.10-D-1710TS
			
21	Connect electrical connector (7) to actuator motor (8).		
22	Attach electrical wiring harness (5) to brake caliper (1).	<p>i Screw in bolt (6) to do this.</p> <p>Nm Bolt, wiring harness for wear indicator to brake caliper</p>	BA42.10-N-1004-12TS
23	Connect electrical wiring harness (4) with electrical wiring harness (5) to electrical connector.		
24	Install electrical wiring harness on holder (2).		

25 	Deactivate brake pad change mode.	 Whilst doing so, do not actuate service brake. Otherwise, the spindle of the brake caliper (1) will be damaged.	AR42.10-D-1710-01TS
26 	Bleed brake system.		AR42.10-D-0010TS
27	Fit brake pads on rear axle.	 For this, depress brake pedal several times until the brake pads contact the brake disks. Firm resistance should be noticeable at the brake pedal.	
28 	Mount rear wheels.		AR40.10-D-1100TS
	Update software / Reset counter		
29 	Connect diagnostic system.	 It is absolutely essential to precisely follow the operation steps as described in the vehicle diagnosis system.	AD00.00-D-2000-06TS
30 	Connect charging equipment. Maintaining on-board electrical system voltage when performing test and diagnosis work on vehicle	 During the entire work procedure a sufficiently large voltage supply must be provided for the vehicle's on-board electrical system. Otherwise any undervoltage that occurs may damage the control units.  Follow the operating instructions for the charger.  Use the charger to ensure that an adequate power supply (min. 12.5 V) is provided for the on-board electrical system battery.	AR54.10-D-1127TS
31	Update software for ESP [®] control unit.	 It is absolutely essential to precisely follow the operation steps as described in the vehicle diagnosis system.	

32	Reset actuator counter of electric parking brake.	<p>i</p> <p>To do this, select the following menu items: Control units view → N30/4 - Electronic Stability Program (ESP®) → Adaptations → Teach-in processes → Resetting of 'Electric parking brake' counter</p> <p>i</p> <p>It is absolutely essential to precisely follow the operation steps as described in the vehicle diagnosis system.</p>	
33 AD	Disconnect diagnostic system.		AD00.00-D-2000-06TS
34 AR	Remove charger from vehicle.		AR54.10-D-1127TS
	Check		
35 AP	Perform brake test on test stand.		AP42.00-D-4290TS

Nm Rear axle brake caliper

Number	Designation	Model 907 except code IT5 (5.0 tonner)	
BA42.10-N-1004-12TS	Bolt, wiring harness for wear indicator to brake caliper Nm	8	

Nm Rear axle brake caliper

Number	Designation	Model 907 except code IT5 (5.0 tonner)	
BA42.10-N-1006-12TS	Screw/guide pin, brake caliper to brake caliper support Nm	34	

Repair materials

Number	Designation	Order number
BR00.45-Z-1028-04A	Assembly cleaner	A 000 986 56 01

Parts ordering note

Part no.	Designation	Quantity
A 000 989 08 07 11	Brake fluid (1L)	n. B.
	Parts scope, model 907	
A 907 423 82 00	Left brake caliper	n. B.
A 907 423 83 00	Right brake caliper	n. B.