OMB Control No.: 2127-0004

Not sequential

## Part 573 Safety Recall Report

## 18V-850

Manufacturer Name: Mercedes-Benz USA, LLC.

NHTSA Recall No.: NR

Manufacturer Recall No.: NR



## **Manufacturer Information:**

Manufacturer Name: Mercedes-Benz USA, LLC.

Address: 13470 International Parkway

Jacksonville FL 32218

Company phone: 1-877-496-3691

## **Population:**

Number of potentially involved : 6,162Estimated percentage with defect : 1%

### **Vehicle Information:**

Vehicle 1: 2015-2016 Mercedes-Benz C300

Vehicle Type: LIGHT VEHICLES

Body Style : 4-DOOR Power Train : GAS

Descriptive Information: 205.048 WF4J 2 Vehicles

The recall population was determined through production records and small number with an earlier production date when a potentially affected steering rack was installed during an earlier repair. Unaffected vehicles contain locknuts that meet

production specifications

Production Dates: JUL 16, 2015 - FEB 02, 2016

VIN Range 1: Begin: NR End: NR

Vehicle 2: 2017-2017 Mercedes-Benz C300 Cabrio

Vehicle Type: LIGHT VEHICLES

Body Style : 2-DOOR Power Train : GAS

Descriptive Information: 205.448 WK4J 1 Vehicle

The recall population was determined through production records and small number with an earlier production date when a potentially affected steering rack was

installed during an earlier repair. Unaffected vehicles contain locknuts that meet

production specifications

Production Dates: JAN 23, 2017 - JAN 23, 2017

VIN Range 1: Begin: NR End: NR Not sequential

Vehicle 3: 2017-2017 Mercedes-Benz C300 Coupe

Vehicle Type: LIGHT VEHICLES

Body Style : 2-DOOR Power Train : GAS

Descriptive Information :	: 205.348 WJ4J 1 Vehicle The recall population was determined through production records and small number with an earlier production date when a potentially affected steering rack was installed during an earlier repair. Unaffected vehicles contain locknuts that meet production specifications					
Production Dates :	MAR 07, 2016 - MAR 07, 2016					
VIN Range 1:		NR	End:	NR	☐ Not sequential	
	GAS 205.486 WK8G The recall popul with an earlier p	S I Vehicle ation was deter production date an earlier repa	rmined when a	through produc potentially affe	tion records and small number cted steering rack was contain locknuts that meet	
Production Dates : VIN Range 1 :		DEC 21, 2016 NR	End:	NR	☐ Not sequential	
Vehicle Type : Body Style : Power Train : Descriptive Information :	GAS 205.087 WF8H : The recall popul with an earlier p installed during production spec	S  I Vehicle ation was deter broduction date an earlier repa ifications	rmined when a	potentially affe	tion records and small number cted steering rack was contain locknuts that meet	
Production Dates : VIN Range 1 :		NR NR	End:	NR	☐ Not sequential	
	GAS 205.048 WF4J 3 205.083 WF8D 1	S 3864 Vehicles 16 Vehicles ation was deter	rmined		tion records. Unaffected cations.	

Production Dates : VIN Range 1 :		OCT 05, 2018 NR	End:	NR	☐ Not sequential	
	208111		Liid.			
	2018-2019 Mer LIGHT VEHICLE 2-DOOR		00 Cabri	0		
Power Train :						
Descriptive Information :		27 Vobielos				
Descriptive information.	205.483 WK8D					
			rmined	through production record	ds. Unaffected	
				oduction specifications.		
			•	•		
Production Dates :	JAN 02, 2018 - 0	CT 05, 2018				
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential	
	2018-2019 Mer		00 Coup	e		
V -		LIGHT VEHICLES				
Body Style :	2-DOOR					
Power Train :	GAS					
<b>Descriptive Information:</b>	205.348 WJ4J	248 Vehicles				
	205.383 WJ8D 2					
	The recall population was determined through production records. Unaffected					
			neet pro	oduction specifications.		
Production Dates :	JAN 02, 2018 - 0	CT 05, 2018				
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential	
	2018-2019 Mer		60e			
· -	LIGHT VEHICLE	S				
Body Style :	4-DOOR					
Power Train :	HYBRID ELECTRIC					
Descriptive Information :	: 205.047 WF4H 135 Vehicles					
	The recall population was determined through production records. Unaffected					
	vehicles contain	locknuts that r	neet pro	oduction specifications.		
	1431.00.0010.0	OT 07 0010				
Production Dates :			<b>.</b> .	ND		
VIN Range 1:	Begin:	NR	End:	NR	■ Not sequential	
Vohiolo 10	2018-2019 Mer	oodos Ponz C63	AMC			
			AMG			
· -	LIGHT VEHICLE					
Body Style :						
Power Train:		201/11/1				
Descriptive Information :				alaman ala mana disersity and se	Ja Ilmaffa et i J	
	ine recall popul	iation was dete	rmined	through production record	us. Unairected	

	vehicles contain locknuts that meet production specifications.					
Production Dates :	JAN 02, 2018 - O	CT 05, 2018				
VIN Range 1:	Begin:	NR	End:	NR	■ Not sequential	
Vehicle 11:	2018-2018 Merc	cedes-Benz C63	AMG C	abrio		
0 2	LIGHT VEHICLES	S				
Body Style :						
Power Train :	GAS					
Descriptive Information :						
				through production record	ls. Unaffected	
	venicles contain	locknuts that n	ieet pro	oduction specifications.		
Production Dates :	JAN 02, 2018 - 0	CT 05, 2018				
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential	
Valiala 10.	9010 9010 Mana		AMCC			
	2018-2018 Merc		AIVIG C	oupe		
V 2	LIGHT VEHICLES	•				
Body Style : Power Train :						
		017 1 1 1				
Descriptive Information :			minad	through production record	ls Unaffected	
	The recall population was determined through production records. Unaffected vehicles contain locknuts that meet production specifications.					
Production Dates :	JAN 02, 2018 - OCT 05, 2018					
VIN Range 1:				1170		
viivitalige 1.	Begin:	NR	End:	NR	■ Not sequential	
				NR	☐ Not sequential	
	2018-2018 Merc			NR	☐ Not sequential	
Vehicle 13:		cedes-Benz C63		NR	☐ Not sequential	
Vehicle 13 : Vehicle Type : Body Style :	2018-2018 Merc LIGHT VEHICLES 4-DOOR	cedes-Benz C63		NR	☐ Not sequential	
Vehicle 13 : Vehicle Type :	2018-2018 Merc LIGHT VEHICLES 4-DOOR	cedes-Benz C63		NR	☐ Not sequential	
Vehicle 13 : Vehicle Type : Body Style :	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3	eedes-Benz C63 S 86 Vehicles	S AMG			
Vehicle 13 : Vehicle Type : Body Style : Power Train :	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popula	eedes-Benz C63 S 36 Vehicles ation was deter	S AMG	through production record		
Vehicle 13 : Vehicle Type : Body Style : Power Train :	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popula	eedes-Benz C63 S 36 Vehicles ation was deter	S AMG			
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popula vehicles contain	eedes-Benz C63 S 36 Vehicles ation was deter locknuts that n	S AMG	through production record		
Vehicle 13 : Vehicle Type : Body Style : Power Train :	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popular vehicles contain JAN 02, 2018 - 0	eedes-Benz C63 S 36 Vehicles ation was deter locknuts that n	S AMG	through production record oduction specifications.		
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popular vehicles contain JAN 02, 2018 - 0	cedes-Benz C63 S G6 Vehicles ation was deter locknuts that n	S AMG mined neet pro	through production record oduction specifications.	ls. Unaffected	
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:  Production Dates: VIN Range 1:	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popular vehicles contain JAN 02, 2018 - 0	cedes-Benz C63 S George Vehicles ation was deter locknuts that m CT 05, 2018 NR	S AMG mined neet pro	through production record oduction specifications. NR	ls. Unaffected	
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:  Production Dates: VIN Range 1:	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popula vehicles contain JAN 02, 2018 - Oo Begin:	cedes-Benz C63 S G6 Vehicles ation was deter locknuts that n CT 05, 2018 NR cedes-Benz C63	S AMG mined neet pro	through production record oduction specifications. NR	ls. Unaffected	
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:  Production Dates: VIN Range 1:	2018-2018 Merc LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popula vehicles contain JAN 02, 2018 - Of Begin:	cedes-Benz C63 S G6 Vehicles ation was deter locknuts that n CT 05, 2018 NR cedes-Benz C63	S AMG mined neet pro	through production record oduction specifications. NR	ls. Unaffected	
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:  Production Dates: VIN Range 1:  Vehicle 14: Vehicle Type:	2018-2018 Merce LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popular vehicles contain JAN 02, 2018 - OBegin: 2018-2019 Merce LIGHT VEHICLES 2-DOOR	cedes-Benz C63 S G6 Vehicles ation was deter locknuts that n CT 05, 2018 NR cedes-Benz C63	S AMG mined neet pro	through production record oduction specifications. NR	ls. Unaffected	
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:  Production Dates: VIN Range 1:  Vehicle 14: Vehicle Type: Body Style:	2018-2018 Merce LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popular vehicles contain JAN 02, 2018 - OB Begin: 2018-2019 Merce LIGHT VEHICLES 2-DOOR GAS 205.487 WK8H 4	cedes-Benz C63 S G6 Vehicles ation was deter locknuts that n CT 05, 2018 NR cedes-Benz C63 S	S AMG mined neet pro	through production record oduction specifications. NR Cabrio	ls. Unaffected	
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:  Production Dates: VIN Range 1:  Vehicle 14: Vehicle Type: Body Style: Power Train:	2018-2018 Merce LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popular vehicles contain  JAN 02, 2018 - Oo Begin:  2018-2019 Merce LIGHT VEHICLES 2-DOOR GAS 205.487 WK8H 4 The recall popular	cedes-Benz C63 S G6 Vehicles ation was deter locknuts that n CT 05, 2018 NR cedes-Benz C63 S G44 Vehicles ation was deter	S AMG mined neet pro	through production record oduction specifications.  NR  Cabrio  through production record	ls. Unaffected	
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:  Production Dates: VIN Range 1:  Vehicle 14: Vehicle Type: Body Style: Power Train:	2018-2018 Merce LIGHT VEHICLES 4-DOOR GAS 205.087 WF8H 3 The recall popular vehicles contain  JAN 02, 2018 - Oo Begin:  2018-2019 Merce LIGHT VEHICLES 2-DOOR GAS 205.487 WK8H 4 The recall popular	cedes-Benz C63 S G6 Vehicles ation was deter locknuts that n CT 05, 2018 NR cedes-Benz C63 S G44 Vehicles ation was deter	S AMG mined neet pro	through production record oduction specifications. NR Cabrio	ls. Unaffected	

Production Dates :			End:	ND	□ Not acquential	
VIN Range 1:	Begin:	NR	Ena:	NK	■ Not sequential	
	GAS 205.387 WJ8H 9 The recall popul	S 2 Vehicles ation was deter	rmined	Coupe through production recoroduction specifications.	ds. Unaffected	
Production Dates:						
VIN Range 1:	Begin:	NR	End:	NR	■ Not sequential	
	GAS 257.358 2J5J 2 V The recall popul	S /ehicles ation was deter	rmined	through production recor oduction specifications.	ds. Unaffected	
Production Dates :	JAN 02. 2018 - 0	CT 05. 2018				
VIN Range 1:		NR	End:	NR	☐ Not sequential	
					ш і	
Vehicle Type : Body Style : Power Train :	17: 2018-2018 Mercedes-Benz E300  ype: LIGHT VEHICLES  tyle: 4-DOOR  rain: GAS  ion: 213.048 ZF4J 749 Vehicles  The recall population was determined through production records. Unaffected vehicles contain locknuts that meet production specifications.					
Production Dates :	JAN 02. 2018 - O	CT 05. 2018				
VIN Range 1:		NR	End:	NR	☐ Not sequential	
	GAS 238.465 1K6F 2 The recall popul vehicles contain	S 277 Vehicles ation was deter locknuts that n	rmined	through production recor oduction specifications.	ds. Unaffected	
		,				

# **Part 573 Safety Recall Report**

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VIN Range 1:	Begin :	NR	End: NR	☐ Not sequential		
	GAS 238.365 1J6F The recall pop	ES 270 Vehic ulation was	•			
Production Dates :	: JAN 02, 2018 - OCT 05, 2018					
VIN Range 1:	Begin:	NR	End: NR	☐ Not sequential		
Vehicle Type : Body Style : Power Train :						
Production Dates :				_		
VIN Range 1:	Begin:	NR	End: NR	☐ Not sequential		
	GAS 238.367 1J6H The recall pop	ES  3 Vehicles ulation was	•	ction records. Unaffected cations.		
Production Dates :	Dates: JAN 02, 2018 - OCT 05, 2018					
VIN Range 1:		NR	End: NR	☐ Not sequential		
Description of Defect ·						

Description of the Defect: Daimler AG ("DAG"), the manufacturer of Mercedes-Benz vehicles, has

determined that on certain Model Year ("MY") 2018-2019 C-Class (205 platform), E-Class (213 platform), E-Class Coupe (238 platform), CLS-Class (257 platform) vehicles with rear-wheel drive a locknut in the steering rack might have internal material cracks. Additionally, six MY 2015-2017 C-Class (205 platform) vehicles were identified as having been previously repaired

using the affected locknut.

FMVSS 1: NR FMVSS 2: NR

Description of the Safety Risk: In the unlikely event that such a locknut was installed in the affected vehicle

population, large lateral forces, such as those encountered by impacting a curb during maneuvering or parking, could cause the locknut to break. This could cause the steering to become fixed in a static position, which would

increase the risk of a crash.

Description of the Cause: Due to a production deviation at a sub-supplier (Tier-4), a certain batch of

locknuts might have internal material cracks and thereby not meet the strength

requirements specified.

Identification of Any Warning The customer will not receive an advance warning due to the nature of the

that can Occur: failure mechanism.

## **Supplier Identification:**

## **Component Manufacturer**

Name: thyssenkrupp Presta Aktiengesellschaft

Address: Essanestrasse 10

**Eschen FOREIGN STATES 9492** 

Country: Liechtenstein

## **Chronology:**

In February 2018, the supplier of the steering rack informed DAG about instances of broken locknuts in the supplier's production process.

Subsequently, DAG launched investigations of this issue together with the supplier. It was determined that the material of a certain batch of locknuts might have internal cracks due to a process deviation at a sub-supplier (Tier-4). As a result, it was concluded that locknuts exhibiting this issue would be identified in the production process of the supplier by the installed quality inspections and application of defined loads and forces to the steering racks in the production process. These conclusions were confirmed by additional high-stress load testing of potentially affected locknuts.

After this investigation was completed, DAG determined in March 2018 that no safety relevance for this issue existed, as all potentially affected locknuts or steering racks would be identified in the supplier's production process.

In June 2018, DAG was informed about an instance of a fixed steering assembly during unloading of a new vehicle at a dealer in Asia. The steering rack of this vehicle was shipped to the supplier for investigation and in mid-July 2018 a broken locknut was identified as the root cause.

Subsequently, the investigation of the aforementioned issue was re-opened in order to clarify why the locknut was not identified as faulty during the production process of the supplier.

In the course of this investigation in August and September 2018, it was concluded that the locknut in question had internal cracks in the material, thus making it impossible for those cracks to be detected by the installed quality inspections at the supplier. Until then, it was assumed that all cracks would be visible on the surface and thus be detectable by the installed magnetic particle testing (fluxing).

Furthermore, it was concluded that the existing conformity-of-production tests that apply defined forces to each steering rack might not in ev

## **Description of Remedy:**

Description of Remedy Program: As a precautionary measure an authorized Mercedes-Benz dealer will

replace the steering rack on the affected vehicles.

Pursuant to 49 C.F.R. § 577.11(e), MBUSA does not plan to provide notice

about pre-notice reimbursement to owners since all involved vehicles

remain covered under the new vehicle warranty.

How Remedy Component Differs The steering racks to be installed in the scope of the recall contain

from Recalled Component: locknuts which meet production specifications.

Identify How/When Recall Condition A change in the production procedure of our supplier ensures that this

was Corrected in Production: issue can no longer occur from October 16, 2018 onwards.

### **Recall Schedule:**

Description of Recall Schedule: Dealers will be notified of the pending voluntary recall campaign in

December 2018. Owners will be notified approximately one week after

recall launch to the dealers in January 2018. A copy of all

communications will be provided when available.

Planned Dealer Notification Date: DEC 11, 2018 - NR

Planned Owner Notification Date: JAN 25, 2019 - NR

\* NR - Not Reported