

Unusual handling characteristics caused by random sprung mass vibrations

Topic number	LI32.50-P-064467
Version	1
Design group	32.50 Active body control (ABC)
Date	07-14-2016
Validity	Model 222 and model 217 with code 487 (ABC)
Reason for change	
Reason for block	

Complaint:

Customer may complain of unusual handling characteristics caused by random sprung mass vibrations.

Cause:

Acceleration sensors may have been installed which could cause fault codes to be stored or unusual handling characteristics to occur. See the label on the sensor in the attachment.

Remedy:

1. Read out the fault code. If a fault code is displayed, replace only the affected acceleration sensor.
2. If complaint persists, change both acceleration sensors at the front axle and check the handling characteristics. If complaints persists, replace the acceleration sensor at the rear axle.

Symptoms

Chassis/suspension / Suspension/Dampening / Active body control / Function / Regulates without obvious cause

Control unit/fault code

Control unit	Fault code	Fault text
N51/2 - Active Body Control (ABC) (ABC222)	C154601	The left front acceleration sensor has a malfunction. There is a general electrical fault.
N51/2 - Active Body Control (ABC) (ABC222)	C154E08	The left rear acceleration sensor has a malfunction. There is a signal fault or the message is faulty.
N51/2 - Active Body Control (ABC) (ABC222)	C154E09	The left rear acceleration sensor has a malfunction. There is a component fault.
N51/2 - Active Body Control (ABC) (ABC222)	C154E64	The left rear acceleration sensor has a malfunction. There is an implausible signal.
N51/2 - Active Body Control (ABC) (ABC222)	C154608	The left front acceleration sensor has a malfunction. There is a signal fault or the message is faulty.
N51/2 - Active Body Control (ABC) (ABC222)	C154609	The left front acceleration sensor has a malfunction. There is a component fault.

XENTRY TIPS

N51/2 - Active Body Control (ABC) (ABC222)	C154664	The left front acceleration sensor has a malfunction. There is an implausible signal.
N51/2 - Active Body Control (ABC) (ABC222)	C154A01	The right front acceleration sensor has a malfunction. There is a general electrical fault.
N51/2 - Active Body Control (ABC) (ABC222)	C154A08	The right front acceleration sensor has a malfunction. There is a signal fault or the message is faulty.
N51/2 - Active Body Control (ABC) (ABC222)	C154A09	The right front acceleration sensor has a malfunction. There is a component fault.
N51/2 - Active Body Control (ABC) (ABC222)	C154A64	The right front acceleration sensor has a malfunction. There is an implausible signal.
N51/2 - Active Body Control (ABC) (ABC222)	C154E01	The left rear acceleration sensor has a malfunction. There is a general electrical fault.

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 905 76 00			Acceleration sensor	3		X

Attachments

File	Description
Beschleunigungssensor.jpg	Field 6 (XX W YY) on the sensor contains the affected batches. The following batches are affected: 16 W 16 16 W 18 16 W 19 16 W 20

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
32-8545	REPLACE LEFT FRONT BODY ACCELERATION SENSOR (AFTER CHECK)		32F04 52	
32-8546	REPLACE RIGHT FRONT BODY ACCELERATION SENSOR (AFTER CHECK)		32U04 52	
32-8547	BODY ACCELERATION SENSOR AT REAR AXLE		32571 52	
54-0650	12V			
54-1011	QUICK TEST			

Attachments

XENTRY TIPS

Beschleunigungssensor.
jpg:

