

Shock Symbol with "Do Not Drive Over 50MPH" Instrument Cluster Notification - U013281 and C156F00 in A108/X Active Roll Stabilization Control Units

Topic number	LI32.35-P-079752
Version	2
Function group	32.35 - Stabilizer
Date	2/12/26
Validity	167 (GLE and GLS), 223, and 294 with Option Code 465 AMG ONLY
Reason for change	Updating Remedy

Complaint

Shock symbol in instrument cluster with "Do Not Drive Over 50MPH" message

AND

DTC's in A108/2 or A108/3:

U013281 - Communication with control unit "Suspension" has a malfunction. Incorrect data were received.

C156F00 - The signal values of the level sensors are implausible.

Cause

Physical layer wiring to the level control sensors B22/X.

Remedy

Check A108/2 and A108/3 for freeze frame data section "ZF_error_handler". The text will provide a good place to start.

Example: "SPC_FEHLER_VehLvl_Stat_HP_AMG_AR2_SNA_VehLvl_RR_V2_AMG" indicates the Right Rear may have initiated the DTC. See attached picture for reference.

Is concern reproducible? If so, watch actual values in Xentry and see which sensor is setting the implausible value.

Use Hioki to measure wiring to all four level sensors from N51/8.

Use above DTC freeze frame data to physically inspect specific wiring as mentioned in the freeze frame data above.

Check all level sensors for damage, correct mounting, level sensors bound or not moving, etc...

If vehicle exhibits concern after all of the above is completed, please open a TIPS case to the Body, Chassis, Entertainment Inbox.

Attachments

File

A108 U013281 Handler.png

Description

ZF Error Handler Text

A108/3 - Active roll stabilization REAR (Roll control)

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Model	Part number	Supplier	Version
Hardware	167 901 47 06	ZF	20/21 000
Software	167 902 19 11	ZF	20/42 001
Software	167 903 92 05	ZF	20/42 000
Boot software	167 904 87 00	ZF	19/22 000

Diagnosis identifier	004005	Control unit variant	EAR5167_R_Series_R09
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Event	Text	Status	
U013281	Communication with control unit "Suspension" has a malfunction. Incorrect data were received.	S	
	Name	First occurrence	Last occurrence
	Berechneter_DC_Strom_aus_MotorControl	-0.01A	0.21A
	E2E_Fehlertyp	0	0
	EPU_Controller_State	7	7
	Istpositions_Actuator	-1.20°	0.59°
	Klemme_15_Status	4	4
	Motor_rpm	0.00RPM	-190.00RPM
	Spannungsmessung_48V_Versorgung	46.54V	45.83V
	Stabilization_desired_torque	0.00NM	-58.00NM
	System_State	NORMAL_MODE	NORMAL_MODE
	VehLateralAccel	-0.28m/s²	0.30m/s²
	Vehicle_Speed	0.00km/h	78.00km/h
	ZF_error_handler	SPC_FEHLER_VehLVL	SPC_FEHLER_VehLVL
		Stat_HP_AMG_AR2	Stat_HP_AMG_AR2
		SNA_VehLvl_RR_V2	SNA_VehLvl_RR_V2
		AMG	AMG
	reserved_Klemme_15_Zaehler	0	0
	aktuell_Phasenstrom_Phase_1	0.05A	-0.21A
	aktuell_Phasenstrom_Phase_2	-0.21A	2.66A
	aktuell_Phasenstrom_Phase_3	0.15A	-2.46A
	gemessene_Temperatur_Controlboard	47.79°C	43.90°C
	gemessene_Temperatur_Powerboard	31.10°C	29.00°C
	Frequency counter	---	2.00
	Total distance	16064.00km	16160.00km
	Number of ignition cycles since the last occurrence of the fault	---	19.00
	Operating time	---	4294967295
C156F00	The signal values of the level sensors are implausible.	S	
	Name	First occurrence	Last occurrence
	Berechneter_DC_Strom_aus_MotorControl	-0.01A	0.17A
	E2E_Fehlertyp	0	0
	EPU_Controller_State	7	7
	Istpositions_Actuator	-1.20°	0.59°
	Klemme_15_Status	4	4
	Motor_rpm	0.00RPM	-194.00RPM
	Spannungsmessung_48V_Versorgung	46.54V	45.90V
	Stabilization_desired_torque	0.00NM	-51.00NM
	System_State	NORMAL_MODE	NORMAL_MODE
	VehLateralAccel	-0.28m/s²	0.30m/s²
	Vehicle_Speed	0.00km/h	78.00km/h
	ZF_error_handler	HEIGHT_LEVEL_ERR	HEIGHT_LEVEL_ERR
		OR	OR
	reserved_Klemme_15_Zaehler	0	0

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Symptoms
Chassis/suspension > Suspension/Dampening > Suspension System Function > Indicator lamp is on
Chassis/suspension > Suspension/Dampening > AIRMATIC > Indicator lamp > lit
Chassis/suspension > Suspension/Dampening > Electronic level control ENR > Malfunction
Chassis/suspension > Suspension/Dampening > Roll control > Malfunction
Control unit/fault code

XENTRY Tips

Control unit	Fault text
A108/3 - Active roll stabilization REAR (Roll control) (EARS167_R)	C156F00 - The signal values of the level sensors are implausible. _ U013281 - Communication with control unit "Suspension" has a malfunction. Incorrect data were received.
A108/2 - Active roll stabilization FRONT (Roll control) (EARS167_F)	C156F00 - The signal values of the level sensors are implausible. _ U013281 - Communication with control unit "Suspension" has a malfunction. Incorrect data were received.

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note