

XENTRY

Message in instrument cluster "ESP Malfunction - Service Required"

Topic number	LI42.47-P-048216
Version	2
Design group	42.47 Adaptive Brake (ABR)
Date	01-20-2011
Validity	Model series 221 Model series 216
Reason for change	Part number updated
Reason for block	

Complaint:

Message in instrument cluster "ESP Malfunction - Service Required" and/or "BAS Malfunction - Service Required" while vehicle is stationary.

After ignition OFF/ON, or while the vehicle is stationary with the engine running, the ESP warning lamp (yellow triangle) flashes and the transmission cannot be shifted out of "P".

The vehicle may lock by itself.

With the ignition ON and the vehicle stationary, a speed of 260 km/h is displayed in the instrument cluster (A1) (IC) after approx. 2 min. The trip counter and main odometer are incremented.

Note:

Either at least three of the following codes

- 5102 and/or
- 5112 and/or
- 5122 and/or
- 5132,

must be present in the ESP control unit (ESP CU) (N47-5) or the fault code combination

- 5995 in the ABR control unit and 722 in the transmission control unit (N15/3) (the relevant code is logged at a virtually identical mileage (+/-16 km) and the same speed; see fault code freeze frame data), must be present.

Cause:

An implausible wheel speed sensor (DZS) signal is detected by the ESP CU.

Remedy:

- Flashing of ESP Control Unit
- Replacement of all 4 wheel speed sensors

Symptoms
Chassis / suspension / Brake system / Service brake / Brakes, Display / Goes on
Chassis / suspension / Brake system / Brakes/traction regulation system / Antilock Brake System ABS / Display message / Antilock braking system - visit workshop
Chassis / suspension / Brake system / Brakes/traction regulation system / Electronic Stability Program ESP / Display message / Display text, yellow/white / Electronic stability program - visit workshop
Chassis / suspension / Brake system / Brakes/traction regulation system / Electronic Stability Program ESP / Display message / Display text, yellow/white / Electronic stability program not available

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Chassis / suspension / Brake system / Brakes/traction regulation system / Brake assist system BAS / Display message / Brake assist - visit workshop
Chassis / suspension / Brake system / Brakes/traction regulation system / Brake assist system BAS / Display message / Brake assist - not available

Control unit/fault code		
Control unit	Fault code	Fault text
ABR-Adaptive Brake (SBC3)	5132	L6/4 (right rear speed sensor):Carry out visual inspection.
ABR-Adaptive Brake (SBC3)	5102	L6/1 (left front speed sensor):Carry out visual inspection.
ABR-Adaptive Brake (SBC3)	5112	L6/2 (right front speed sensor):Carry out visual inspection.
ABR-Adaptive Brake (SBC3)	5122	L6/3 (left rear speed sensor):Carry out visual inspection.
ABR-Adaptive Brake (SBC3)	5995	Event:Hydraulic system of brake was overheated.
ETC-Electronic transmission control (EGS2)	0722	The signal from component Y3/8n3 (Output speed sensor (VGS)) is not available. ([VGS3_*])

Parts							
Part number	xsl-Par-tEs1	xsl-Par-tEs2	Designation	Quantity	Note	EPC	Non-EPC
A 221 905 00 01			Front axle rpm sensor	2	NOT 4MATIC	X	
A 221 905 55 00			Front axle rpm sensor	2	4MATIC ONLY	X	
A 221 905 02 01			Rear axle rpm sensor	2	For veh. built >= Code 800	X	
A 221 905 04 01			Rear axle rpm sensor	2	For veh. built < Code 800	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
			43A08 73	

WIS-References			
Document number	Title	Note	Allocation
AR42.30-P-0712	Remove/install left or right front rpm sensor		Remedy
AR42.40-P-0820	Remove/install left or right rear axle rpm sensor		Remedy

Validity		
Vehicle	Engine	Transmission
216.371	*	*
216.376	*	*
216.377	*	*

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216.379	*	*
216.386	*	*
221.022	*	*
221.028	*	*
221.054	*	*
221.056	*	*
221.070	*	*
221.071	*	*
221.077	*	*
221.080	*	*
221.084	*	*
221.086	*	*
221.087	*	*
221.122	*	*
221.128	*	*
221.154	*	*
221.156	*	*
221.170	*	*
221.171	*	*
221.176	*	*
221.177	*	*
221.179	*	*
221.180	*	*
221.184	*	*
221.186	*	*
221.187	*	*