Message in instrument cluster "ESP Malfunction - Service Required"

Topic number	LI42.47-P-059422
Version	1
Design group	42.47 Adaptive Brake (ABR)
Date	07-17-2014
Validity	Model series 204 with code 802, 803, 804 Model series 172 with code 802, 803, 804
Reason for change	Part number changed
Reason for block	

Complaint:

Message in instrument cluster "ESP Malfunction - Service Required" and/or "BAS Malfunction - Service Required".

Note:

The following codes

- C110200 and/or
- C110700 and/or
- C111200 and/or
- C111700

are present in the ESP control unit (ESP CU) (N30-4).

Cause:

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

Remedy:

Replacement of both front rpm 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
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

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ESP® - Electronic stability program (N30/4) (ABR2XT)	C111200	The signal of component 'L6/2 (Right front axle rpm sensor)' is implausible.
ESP® - Electronic stability program (N30/4) (ABR2XT)	C110200	The signal of component 'L6/1 (Left front axle rpm sensor)' is implausible.
ESP® - Electronic stability program (N30/4) (ABR2XT)	C110700	The signal of component 'L6/1 (Left front axle rpm sensor)' is implausible.
ESP® - Electronic stability program (N30/4) (ABR2XT)	C111700	The signal of component 'L6/2 (Right front axle rpm sensor)' is implausible.

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 204 905 29 05			Front axle rpm sensor	2	BR204 4x2 except AMG models	X	
A 172 905 61 01			Front axle rpm sensor	2	R172	X	
A 204 905 31 05			Front axle rpm sensor	2	BR204 4x4 except AMG models	X	
A 204 905 30 05			Front axle rpm sensor	2	BR204 AMG models	X	

Work units

Op. no.	Operation text	Time	Damage code	Note
42-9873	REPLACE RPM SENSORS (BOTH) OF 1ST AXLE FOR ESP (AFTER CHECK)		43A08 73	43A08 - left 43N08 - right

WIS-References

Document number	Title	Note	Allocation
AR42.30-P-0712	Remove/install left or right front rpm sensor		Remedy

Validity

Vehicle	Engine	Transmission
C (204)	*	*
SLK (172)	*	*

Full model designation breakdown

Vehicle	Engine	Transmission
172.403	651.980	711.670
172.403	651.980	722.908
172.403	651.980	725.011

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172.447	271.861	711.653
172.447	271.861	711.654
172.447	271.861	722.997
172.448	271.861	711.655
172.448	271.861	722.997
172.457	276.956	722.906
172.475	152.980	722.909
204.000	651.913	711.653
204.000	651.913	716.656
204.000	651.913	722.694
204.000	651.913	722.996
204.001	651.913	711.653
204.001	651.913	716.656
204.001	651.913	722.694
204.001	651.913	722.996
204.002	651.911	711.653
204.002	651.911	716.656
204.002	651.911	722.646
204.002	651.911	722.908
204.003	651.911	711.670
204.003	651.911	722.646
204.003	651.911	722.908
204.006	646.812	711.655
204.006	646.812	716.608
204.006	646.812	716.657
204.006	646.812	722.699
204.007	646.811	711.655
204.007	646.811	716.608
204.007	646.811	716.655
204.007	646.811	716.657
204.007	646.811	722.699
204.008	646.811	716.657
204.008	646.811	722.640
204.022	642.960	711.670
204.022	642.960	722.902
204.023	642.834	711.670
204.023	642.834	722.903
204.025	642.830	711.670
204.025	642.830	722.902
204.031	274.910	711.655
204.031	274.910	722.995
204.041	271.950	711.656
204.041	271.950	716.607

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204.041	271.950	716.635
204.041	271.950	722.695
204.041	271.950	722.997
204.044	271.910	711.655
204.044	271.910	711.656
204.044	271.910	716.635
204.044	271.910	722.695
204.045	271.910	711.655
204.045	271.910	716.607
204.045	271.910	722.695
204.046	271.952	711.656
204.046	271.952	716.607
204.046	271.952	716.635
204.046	271.952	722.695
204.046	271.952	722.997
204.047	271.860	722.618
204.047	271.860	722.997
204.048	271.860	711.655
204.048	271.860	716.607
204.048	271.860	716.612
204.048	271.860	722.696
204.048	271.860	722.997
204.049	271.820	711.655
204.049	271.820	716.607
204.049	271.820	716.612
204.049	271.820	722.696
204.049	271.820	722.997
204.052	272.921	711.656
204.052	272.921	716.636
204.052	272.921	722.998
204.054	272.947	711.654
204.054	272.947	716.671
204.054	272.947	722.999
204.055	276.957	722.906
204.056	272.961	722.906
204.057	276.957	722.906
204.065	272.982	722.906
204.077	156.985	722.907
204.077	156.985	722.930
204.080	276.957	722.960
204.081	272.948	722.964
204.082	651.912	722.965
204.084	651.912	711.653

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204.084	651.912	722.965
204.085	272.911	722.963
204.087	272.971	722.960
204.088	276.957	722.960
204.089	642.961	722.962
204.092	642.832	722.962
204.200	651.913	711.653
204.200	651.913	716.656
204.200	651.913	722.694
204.200	651.913	722.996
204.201	651.913	711.653
204.201	651.913	716.656
204.201	651.913	722.694
204.201	651.913	722.996
204.202	651.911	711.653
204.202	651.911	716.656
204.202	651.911	722.646
204.202	651.911	722.908
204.203	651.911	711.670
204.203	651.911	722.646
204.203	651.911	722.908
204.207	646.811	711.655
204.207	646.811	716.608
204.207	646.811	716.655
204.207	646.811	716.657
204.207	646.811	722.699
204.208	646.811	716.657
204.208	646.811	722.640
204.222	642.960	711.670
204.222	642.960	722.902
204.223	642.834	711.670
204.223	642.834	722.903
204.225	642.830	711.670
204.225	642.830	722.902
204.231	274.910	711.655
204.231	274.910	722.995
204.241	271.950	711.656
204.241	271.950	716.635
204.241	271.950	722.695
204.241	271.950	722.997
204.245	271.910	711.655
204.245	271.910	716.607
204.245	271.910	722.695

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204.246	271.952	711.656
204.246	271.952	716.607
204.246	271.952	716.635
204.246	271.952	722.695
204.246	271.952	722.997
204.247	271.860	722.618
204.247	271.860	722.997
204.248	271.860	711.653
204.248	271.860	711.655
204.248	271.860	716.607
204.248	271.860	716.612
204.248	271.860	722.696
204.248	271.860	722.997
204.249	271.820	711.655
204.249	271.820	716.612
204.249	271.820	722.696
204.249	271.820	722.997
204.252	272.921	711.656
204.252	272.921	716.636
204.252	272.921	722.998
204.254	272.947	711.654
204.254	272.947	716.671
204.254	272.947	722.999
204.256	272.961	722.906
204.257	276.957	722.906
204.277	156.985	722.907
204.277	156.985	722.930
204.282	651.912	722.965
204.284	651.912	711.653
204.284	651.912	722.965
204.289	642.961	722.962
204.292	642.832	722.962
204.302	651.911	711.653
204.302	651.911	716.656
204.302	651.911	722.646
204.302	651.911	722.908
204.303	651.911	711.670
204.303	651.911	722.646
204.303	651.911	722.908
204.331	274.910	711.655
204.331	274.910	722.995
204.347	271.860	722.618
204.347	271.860	722.997

204.348	271.860	711.655
204.348	271.860	722.997
204.349	271.820	711.655
204.349	271.820	716.607
204.349	271.820	722.997
204.357	276.957	722.906
204.377	156.985	722.907
204.377	156.985	722.930
204.388	276.957	722.960

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