

## Diverse fault messages in instrument cluster; fault on suspension CAN bus

Topic number	LI54.18-P-059361
Version	1
Design group	54.18 Cable harnesses
Date	07-08-2014
Validity	Model series 246; model series 176; model series 117 and model series 156 production, production startup to April or May 2013 Model series 246 up to VIN end number 166305 Model series 176 up to VIN end number 099866 Model series 117 up to VIN end number 012340 Model series 156 up to VIN end number 000116
Reason for change	
Reason for block	

**Complaint:**

Diverse fault messages in instrument cluster.  
 Distronic, ESP, tire pressure monitoring, engine indicator lamp  
 Diverse CAN communication errors stored in quick test  
 Possible malfunctions in Parktronic or Active Parking Assist.  
 Possible malfunctions of PTC heater booster.

**Cause:**

Wiring harness damaged in area between fuse and relay box, and left sidewall in front passenger footwell.  
 Wiring harness makes contact with panel edge and it may be damaged.

Attachments	
File	Description
mögliche Scheuerstelle Leitungssatz im Beifahrerfussraum.pdf	Possible chafe mark on wiring harness in front passenger footwell

**Remedy:**

Repair wiring harness using familiar wiring harness repair methods.  
 Wrap fabric tape around wiring harness.  
 Stick felt onto panel edge.

Symptoms
Communication/information / Warning and control system / Cruise control / Cruise control function / Cruise control indicator lamp is on
Communication/information / Warning and control system / Parking assist / PARKTRONIC / Function / Automatic shutoff

Communication/information / Warning and control system / Parking assist / PARKTRONIC / Malfunction of displays / General
Communication/information / Warning and control system / DISTRONIC / DISTRONIC display / Function error
Power generation / Engine management / Engine management indicator lamp / Engine diagnosis / lit
Overall vehicle / Wiring / Cable damaged/faulty
Overall vehicle / Networking / CAN/FlexRay communication / Malfunction
Power generation / Engine management / Engine performance / Goes into limp-home mode
Power generation / Engine management / Engine performance / No/poor output
Communication/information / Warning and control system / COLLISION PREVENTION ASSIST / Warning message in instrument cluster
Communication/information / Warning and control system / Speed Limit Assist / Warning message in instrument cluster

Control unit/fault code		
Control unit	Fault code	Fault text
SG-AWF - Control unit 'COLLISION PREVENTION ASSIST' (A90) (FCW246)	C326300	Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C00188	Drive train CAN communication has a malfunction. Bus OFF
ESP® - Electronic stability program (N30/4) (ESP9MFA)	C022400	The CAN line has an open circuit.
IC - Instrument cluster (A1) (IC172)	U015187	Communication with the supplemental restraint system (SRS) has a malfunction. The message is missing.
EFB - Electric parking brake (N128) (EPKB166)	U016800	Communication with the electronic ignition lock has a malfunction.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C14187	Communication with the electronic ignition lock has a malfunction.
SG-AWF - Control unit 'COLLISION PREVENTION ASSIST' (A90) (FCW246)	C326500	Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C10F87	Communication with the air conditioning has a malfunction.
IC - Instrument cluster (A1) (IC172)	U015987	Communication with PARKTRONIC has a malfunction. The message is missing. (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U015987))
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C29187	Communication with the steering column module has a malfunction.
ESP® - Electronic stability program (N30/4) (ESP9MFA)	C073B00	The CAN message from control unit 'N73 (Electronic ignition lock control unit)' is faulty.
EZS - Electronic ignition lock (N73) (EIS166)	U118200	The chassis CAN network management is unstable. _
ESP® - Electronic stability program (N30/4) (ESP9MFA)	C022000	The CAN lines have a short circuit to each other.

SAM - Signal acquisition and actuation module (N10) (CBC)	U015187	Communication with the supplemental restraint system (SRS) has a malfunction. The message is missing. (VCS166 )
EZS - Electronic ignition lock (N73) (EZS166)	U012208	Communication with control unit 'Traction system' has a malfunction. There is a signal fault or the message is faulty.
ESP® - Electronic stability program (N30/4) (ESP9MFA)	C063100	No CAN message was received from control unit 'N68 (Electric power steering control unit)'.
EFB - Electric parking brake (N128) (EPKB166)	U102788	Chassis CAN bus OFF fault
IC - Instrument cluster (A1) (IC172)	U010100	Communication with control unit "Transmission" has a malfunction. _ (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U010100%20Getriebe))
SG-AWF - Control unit 'COLLISION PREVENTION ASSIST' (A90) (FCW246)	C326400	Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.
IC - Instrument cluster (A1) (IC172)	U012887	Communication with the electric parking brake has a malfunction. The message is missing. (NOT(#data/IC172/KIG_1_D2_Muster/G%C3%BCltigkeiten/U012887))
IC - Instrument cluster (A1) (IC172)	U103288	Chassis CAN communication has a malfunction. Bus OFF
SG-AWF - Control unit 'COLLISION PREVENTION ASSIST' (A90) (FCW246)	C326800	Chassis CAN bus : CAN signal 'Wheel speed' from control unit 'Electronic stability program' is implausible.
IC - Instrument cluster (A1) (IC172)	U021287	Communication with the steering column module has a malfunction. The message is missing.
EZS - Electronic ignition lock (N73) (EIS166)	U119800	Communication with the intelligent servo module (ISM) has a malfunction. (NOT(..../Kontexte/Kontext.xml#intern/Sparten/MB_PKW/Getriebe/Schaltgetriebe))
SAM - Signal acquisition and actuation module (N10) (CBC)	U010087	Communication with control unit 'Electric motor' has a malfunction. The message is missing. (VCS166 )
SAM - Signal acquisition and actuation module (N10) (CBC)	U012187	Communication with ESP has a malfunction. The message is missing. (VCS166 )
IC - Instrument cluster (A1) (IC172)	U010087	Communication with the control unit 'combustion engine' has a malfunction. The message is missing. (NOT(..../ComDat/Asam%203D%20Server.xml#data/IC_204/IC_204%20base/Gueltigkeiten/nicht_fuer_197_ECELL_242_ev))
SAM - Signal acquisition and actuation module (N10) (CBC)	U012687	Communication with the steering column module has a malfunction. The message is missing.
SG-AWF - Control unit 'COLLISION PREVENTION ASSIST' (A90) (FCW246)	C327300	Chassis CAN bus : CAN signal 'Position of brake pedal' from control unit 'Electronic stability program' is implausible.
EFB - Electric parking brake (N128) (EPKB166)	U012100	Communication with ESP has a malfunction.
IC - Instrument cluster (A1) (IC172)	U013187	Communication with control unit "Power steering" has a malfunction. The message is missing.
ESP® - Electronic stability program (N30/4) (ESP9MFA)	C073200	One or more signals sent from control unit 'Shift module' via the CAN bus is implausible.
SG-AWF - Control unit 'COLLISION PREVENTION ASSIST' (A90) (FCW246)	C326600	Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.

EZS - Electronic ignition lock (N73) (Ezs166)	U012287	Communication with control unit 'Traction system' has a malfunction. The message is missing.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C12987	Communication with ESP has a malfunction. The message is missing.
ES - Electrical power steering (N68) (EPS246)	U041586	Implausible data were received from control unit 'Traction system'. There is an incorrect signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C00100	Drive train CAN communication has a malfunction. Bus OFF
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C15587	Communication with the instrument cluster has a malfunction.
SG-AWF - Control unit 'COLLISION PREVENTION ASSIST' (A90) (FCW246)	C326900	Chassis CAN bus : CAN signal 'Requested engine torque' from control unit 'Electronic stability program' is implausible.
EFB - Electric parking brake (N128) (EPKB166)	U103200	Chassis CAN communication has a malfunction.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C14687	Communication with the central gateway has a malfunction. The message is missing.
PTS - Parking system (N62) (PTS246) (A (176),B (242, 246))	U103288	Chassis CAN communication has a malfunction. Bus OFF
SCM - Steering column module (N80) (SCCM166)	U103200	Chassis CAN communication has a malfunction. _
EFB - Electric parking brake (N128) (EPKB166)	U102700	Chassis CAN bus OFF fault
IC - Instrument cluster (A1) (IC172)	U016887	Communication with the electronic ignition lock has a malfunction. The message is missing.
IC - Instrument cluster (A1) (IC172)	U11A687	Communication with control unit 'Radar sensorics' has a malfunction. The message is missing.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C12887	Communication with the electric parking brake has a malfunction. The message is missing.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C12187	Communication with ESP has a malfunction. The message is missing.
ESP® - Electronic stability program (N30/4) (ESP9MFA)	C084000	No CAN message was received from control unit 'N73 (Electronic ignition lock control unit)'.
ES - Electrical power steering (N68) (EPS246)	U045A86	Implausible data were received from control unit 'PARKTRONIC'. There is an incorrect signal.
SRS - Supplemental restraint system (N2/10) (ORC166)	U103288	Chassis CAN communication has a malfunction. Bus OFF
EZS - Electronic ignition lock (N73) (EIS166)	U118100	The chassis CAN 2 network management is unstable.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	C11187	Communication with control unit "Battery" has a malfunction. The message is missing.

Validity		
Vehicle	Engine	Transmission
176.000	*	*
176.001	*	*
176.002	*	*
176.003	*	*
176.005	*	*
176.007	*	*
176.008	*	*
176.011	*	*
176.012	*	*
176.042	*	*
176.043	*	*
176.044	*	*
176.046	*	*
176.052	*	*
242.848	*	*
242.890	*	*
246.200	*	*
246.201	*	*
246.203	*	*
246.207	*	*
246.211	*	*
246.212	*	*
246.242	*	*
246.243	*	*
246.244	*	*
246.247	*	*
CLA (117)	*	*
GLA (156)	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
117.301	651.901	711.642
117.301	651.901	724.003
117.302	651.930	724.011
117.303	651.930	724.003
117.305	651.930	724.011
117.308	651.930	711.645
117.308	651.930	724.003
117.312	607.951	711.632

117.312	607.951	724.020
117.342	270.910	711.632
117.342	270.910	711.643
117.342	270.910	724.002
117.343	270.910	711.643
117.343	270.910	724.002
117.344	270.920	724.003
117.345	270.920	724.003
117.346	270.920	724.011
117.347	270.910	724.011
117.352	133.980	724.015
156.902	651.930	724.011
156.903	651.930	724.004
156.905	651.930	724.011
156.908	651.930	711.632
156.908	651.930	724.004
156.912	607.951	711.631
156.912	607.951	724.021
156.942	270.910	711.647
156.942	270.910	724.001
156.943	270.910	711.647
156.943	270.910	724.001
156.944	270.920	724.004
156.945	270.920	724.004
156.946	270.920	724.011
156.952	133.980	724.015
176.000	651.901	711.642
176.000	651.901	724.003
176.001	651.901	711.642
176.001	651.901	724.003
176.002	651.930	724.011
176.003	651.930	724.003
176.005	651.930	724.011
176.007	651.930	711.645
176.007	651.930	724.003
176.008	651.930	711.645
176.008	651.930	724.003
176.011	607.951	711.632
176.011	607.951	711.645
176.011	607.951	724.020
176.012	607.951	711.632
176.012	607.951	711.645
176.012	607.951	724.020

176.042	270.910	711.632
176.042	270.910	711.643
176.042	270.910	724.002
176.043	270.910	711.643
176.043	270.910	724.002
176.044	270.920	724.003
176.046	270.920	724.011
176.052	133.980	724.015
242.848	270.920	711.632
242.848	270.920	724.003
242.890	000.000	000.000
242.890	780.990	000.000
246.200	651.901	711.642
246.200	651.901	724.003
246.201	651.901	711.642
246.201	651.901	724.003
246.203	651.930	724.003
246.207	651.930	711.645
246.207	651.930	724.003
246.211	607.951	711.632
246.211	607.951	724.020
246.212	607.951	711.632
246.212	607.951	711.645
246.212	607.951	724.020
246.242	270.910	711.632
246.242	270.910	711.643
246.242	270.910	724.002
246.243	270.910	711.643
246.243	270.910	724.002
246.243	270.910	724.003
246.244	270.920	724.003
246.247	270.920	724.011

