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DISTRONIC PLUS occasionally reacts too sensitively

Topic number	LI30.30-P-056782
Version	1
Function group	30.30 - Cruise control (CC), DISTRONIC (DTR)
Date	8/21/13
Validity	Model 166, 172, 204.9, 216, 218, 231 with production date 01.04.2013 to 30.06.2013 with code (233) DISTRONIC PLUS
Reason for change	

Complaint

During DISTRONIC PLUS operation on multiple-lane roads, the system occasionally reacts too sensitively to vehicles in the adjacent lane.

Cause

The radar sensors control unit may contain default values instead of vehicle-specific values for the angle correction of the front short-range radar sensors.

Angle correction values optimize the detection range of the short-range radar sensors for specific vehicles.

Remedy

Use XENTRY Diagnostics to perform initial startup of the radar sensors control unit (N62/1 or N62/2).

Symptoms				
Communication/information > Assistance and warning systems > DISTRONIC > Function > Implausible regulation				
Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
540992	CONTROL UNIT, CODE		5489790	

Temporary fault message for all assistance systems in the IC

Topic number	LI42.47-P-067880
Version	3
Function group	42.47 - Adaptive Brake (ABR)
Date	5/14/18
Validity	Model series 213 AMG-Sport (E43 AMG-Sport)
Reason for change	Remedy available.

Complaint

Temporary fault message for all assistance systems in the IC.

Note:

The ESP control unit (N30/4) contains the following code (DTC) - U1118FD

Cause

Possibly software of the powertrain control unit ((PTCU) (N127)).

Remedy

Modified software is available for the PTCU control unit.

Note:

Use current XENTRY DVD and all available addons.

Symptoms
Chassis/suspension > Brake system > Brakes/traction regulation system > Electronic Stability Program (ESP) > Display message
Communication/information > Assistance and warning systems > DISTRONIC > Display message > Function error
Communication/information > Assistance and warning systems > Lane Assistant > Malfunction, displays
Communication/information > Assistance and warning systems > Lane Assistant > Warning message in instrument cluster
Communication/information > Assistance and warning systems > Blind spot assist > Warning message in instrument cluster
Communication/information > Assistance and warning systems > Blind spot assist > Malfunction
Communication/information > Assistance and warning systems > Speed Limit Assist > Malfunction
Communication/information > Assistance and warning systems > Brake Assist > Warning message in instrument cluster

XENTRY TIPS

Communication/information > Assistance and warning systems > Brake Assist > Malfunction

Control unit/fault code

Control unit	Fault text
N30/4 - Electronic stability program (ESP®)	U1118FD - The traction system has detected implausible data 1. _

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
540650	ON-BOARD POWER SUPPLY MAINTAIN			
541011	PERFORM QUICK TEST			
540991	UPDATE SOFTWARE PTCU N127		5440Z90	

Steering wheel heater and/or Distronic function limited

Topic number	LI46.11-P-071594
Version	2
Function group	46.11 - Steering wheel heater
Date	3/22/21
Validity	Model series 167, 177, 205, 247, 253, 293
Reason for change	Updated remedy

Complaint

Steering wheel heater and/or Distronic cannot be activated

Cause

Compatibility between steering wheel control panel and steering wheel electronics

Remedy

Update software for steering wheel electronics control unit ("N 135 - Steering wheel electronics (LRE)").

Should the quick test carried out after the software update still show DTCs with the steering wheel heater and/or Distronic,

replace the steering wheel control panels.

If the steering wheel heater and/or Distronic still fail to actuate after replacing the switch panels, or if there are still DTCs, please create a PTSS case

Symptoms
Chassis/suspension > Steering system > Steering wheel heater > Malfunction
Chassis/suspension > Steering system > Steering wheel heater > Cannot be switched on
Chassis/suspension > Steering system > Steering wheel heater > Insufficient heat output
Communication/information > Assistance and warning systems > Distronic > Function > Malfunction
Communication/information > Assistance and warning systems > Distronic > Display message > Function error

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			46342**	Compatibility of steering wheel electronics
			46237**	Steering wheel switch group compatibility

Corrosion at electrical connecting point between front bumper and interior (X174/1)

Topic number	LI54.18-P-056220
Version	9
Function group	54.18 - Cable harnesses
Date	1/25/19
Validity	Model 166
Reason for change	Text revised and validity adjusted.


Complaint

Possible Complaints:

- 1) Various faults in the suspension CAN are logged in the quick test.
- 2) Under certain circumstances it may not be possible to start or switch off the vehicle.
- 3) Interference of Parktronic.

Cause

Corrosion may have occurred at the connecting point X174/1 from the front bumper to the interior wiring harness.

Attachments	
File	Description
CIMG3906.JPG	Corrosion at connecting point X174/1
	

Remedy

1. Replace connecting point X174/1.
2. Reinstall all contacts and replace connector housing on interior wiring harness.

XENTRY TIPS

3. If the conductor in the line itself exhibits corrosion, cut it off until there is enough bare (uncorroded) copper for crimping. If the line length is no longer sufficient, lengthen it accordingly.
4. Replace bumper wiring harness. NOTE: Determine part number of bumper wiring harness in EPC in 88.030 under item 250, because this depends on the equipment installed.

To provide additional protection to the connecting point against further water entry:

- The corresponding cap should be adjusted as shown in the picture "cable duct.jpg".
- Due to its situation, the cable duct must be cut off and deburred as shown in the picture.
- After this, the cover can be placed at the appropriate connecting point (see picture: "Installation.jpg")

Attachments	
File	Description
Installation.jpg 	Installation of cap

WIS-References		
Document number	Title	Note
AR00.19-P-0100A	Wiring harness general repair methods	
AR00.19-P-0001A	Repair wiring harness in accordance with specified repair method	
AR88.10-P-1310GQ	Remove/install front section of fender liner in front fender	
AR88.20-P-2050GQ	Disassemble/assemble front bumper	
AR88.20-P-2000GQ	Remove/install front bumper	

Symptoms
Power generation > Engine management > Engine running > Does not turn off/delay in turning off

XENTRY TIPS

Power generation > Engine management > Engine start/stop > Does not start
 Overall vehicle > Networking > CAN/FlexRay communication > Malfunction
 Communication/information > Assistance and warning systems > Parking assist > PARKTRONIC > Malfunction of displays > General
 Communication/information > Assistance and warning systems > DISTRONIC > Function > Warning message in instrument cluster
 Communication/information > Assistance and warning systems > Brake Assist > Warning message in instrument cluster

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0015455080			ELA MLK 1.2 in yellow	8		X
A0005457180			ELA SLK 2.8 in blue	4		X
A0005457880			Blind plug, green	2		X
A0295450926			Connector housing	1	X174/1 on vehicle side of wiring harness	X
A0009822826			Female contact MLK 1.2	8	X174/1 on vehicle side of wiring harness for pins: 1, 2, 3, 4, 11, 12, 13, 14	X
A0095458026			Female contact SLK 2.8	4	X174/1 on vehicle side of wiring harness for pins: 5, 6, 7, 8	X
			Bumper wiring harness	1	Bumper wiring harness depends on optional equipment installed and can be determined in EPC with the relevant VIN	X
A0001502215			Cap	1	The front part of the cable duct must be cut off prior to installation, as shown in the picture.	X

Attachments

File	Description
Cable duct.jpg	Modification of cap
	

Control unit/fault code

Control unit	Fault text
A80 - Shift module (ISM)	U041587 - Implausible data were received from control unit 'ESP@'. The message is missing.

XENTRY TIPS

	U04158F - Implausible data were received from control unit 'ESP®'. The signal or message is erratic.
A80 - Shift module (ISM)	U041587 - Implausible data were received from control unit 'ESP®'. The message is missing. U04158F - Implausible data were received from control unit 'ESP®'. The signal or message is erratic.
N128 - Electric parking brake (EFB)	U102700 - Chassis CAN bus OFF fault U014600 - CAN signal 'Outside temperature' from control unit 'N10 (Central control unit)' or CAN signal 'Reverse gear' from control unit 'Engine' is implausible. U103200 - Chassis CAN communication has a malfunction.
N128 - Electric parking brake (EFB)	U102700 - Chassis CAN bus OFF fault U014600 - CAN signal 'Outside temperature' from control unit 'N10 (Central control unit)' or CAN signal 'Reverse gear' from control unit 'Engine' is implausible. U103200 - Chassis CAN communication has a malfunction.
N62 - Parking system (PTS)	U042300 - Implausible data were received from the instrument cluster. _
N62 - Parking system (PTS)	U042300 - Implausible data were received from the instrument cluster. _

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
			51B0C74	K/Z* front bumper inner left radar sensor
			51P0C74	K/Z* front bumper inner right radar sensor

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

Topic number	LI54.18-P-059361
Version	2
Function group	54.18 - Cable harnesses
Date	10/23/14
Validity	Model series 246; 176; 117 and 156 from production start-up to January 2014 Model series 246 up to VIN end number **J232379 (Rastatt production) and **N080000 (Kecskemét production) Model series 176 up to VIN end number **J229425 Model series 117 up to VIN end number **N065691 Model series 156 up to VIN end number **J000704
Reason for change	Validity updated

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.

XENTRY TIPS

Symptoms	
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit	
Power generation > Engine management > Engine performance > No/poor output	
Overall vehicle > Wiring > Cable damaged/faulty	
Overall vehicle > Networking > CAN/FlexRay communication > Malfunction	
Communication/information > Assistance and warning systems > Cruise control > Function > Cruise control indicator lamp is on	
Communication/information > Assistance and warning systems > Parking assist > PARKTRONIC > Malfunction of displays > General	
Communication/information > Assistance and warning systems > Parking assist > PARKTRONIC > Function > Automatic shutoff	
Communication/information > Assistance and warning systems > DISTRONIC > Display message > Function error	
Communication/information > Assistance and warning systems > Speed Limit Assist > Warning message in instrument cluster	
Communication/information > Assistance and warning systems > Brake Assist > Warning message in instrument cluster	
Control unit/fault code	
Control unit	Fault text
A90 - Control unit 'COLLISION PREVENTION ASSIST' (SG-AWF)	<p>C326300 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p> <p>C326500 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p> <p>C326400 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p> <p>C326800 - Chassis CAN bus : CAN signal 'Wheel speed' from control unit 'Electronic stability program' is implausible.</p> <p>C327300 - Chassis CAN bus : CAN signal 'Position of brake pedal' from control unit 'Electronic stability program' is implausible.</p> <p>C326600 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p> <p>C326900 - Chassis CAN bus : CAN signal 'Requested engine torque' from control unit 'Electronic stability program' is implausible.</p>
A90 - Control unit 'COLLISION PREVENTION ASSIST' (SG-AWF)	<p>C326300 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p> <p>C326500 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p>

XENTRY TIPS

	<p>C326400 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p> <p>C326800 - Chassis CAN bus : CAN signal 'Wheel speed' from control unit 'Electronic stability program' is implausible.</p> <p>C327300 - Chassis CAN bus : CAN signal 'Position of brake pedal' from control unit 'Electronic stability program' is implausible.</p> <p>C326600 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p> <p>C326900 - Chassis CAN bus : CAN signal 'Requested engine torque' from control unit 'Electronic stability program' is implausible.</p>
<p>A90 - Control unit 'COLLISION PREVENTION ASSIST' (SG-AWF)</p>	<p>C326300 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p> <p>C326500 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p> <p>C326400 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p> <p>C326800 - Chassis CAN bus : CAN signal 'Wheel speed' from control unit 'Electronic stability program' is implausible.</p> <p>C327300 - Chassis CAN bus : CAN signal 'Position of brake pedal' from control unit 'Electronic stability program' is implausible.</p> <p>C326600 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p> <p>C326900 - Chassis CAN bus : CAN signal 'Requested engine torque' from control unit 'Electronic stability program' is implausible.</p>
<p>A90 - Control unit 'COLLISION PREVENTION ASSIST' (SG-AWF)</p>	<p>C326300 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p> <p>C326500 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p> <p>C326400 - Chassis CAN bus : CAN signal 'Brake request' from control unit 'Electronic stability program' is implausible.</p>

XENTRY TIPS

	<p>C326800 - Chassis CAN bus : CAN signal 'Wheel speed' from control unit 'Electronic stability program' is implausible.</p> <p>C327300 - Chassis CAN bus : CAN signal 'Position of brake pedal' from control unit 'Electronic stability program' is implausible.</p> <p>C326600 - Chassis CAN bus : CAN signal 'Operating condition' from control unit 'Electronic stability program' is implausible.</p> <p>C326900 - Chassis CAN bus : CAN signal 'Requested engine torque' from control unit 'Electronic stability program' is implausible.</p>
N73 - Electronic ignition lock (EZS)	<p>U118200 - The chassis CAN network management is unstable. _</p> <p>U118100 - The chassis CAN 2 network management is unstable.</p> <p>U119800 - Communication with the intelligent servo module (ISM) has a malfunction. _ (NOT(..../Kontexte/Kontext.xml#intern/Sparten/MB_PKW/Getriebe/Schaltgetriebe))</p>
N73 - Electronic ignition lock (EZS)	<p>U118200 - The chassis CAN network management is unstable. _</p> <p>U118100 - The chassis CAN 2 network management is unstable.</p> <p>U119800 - Communication with the intelligent servo module (ISM) has a malfunction. _ (NOT(..../Kontexte/Kontext.xml#intern/Sparten/MB_PKW/Getriebe/Schaltgetriebe))</p>
N73 - Electronic ignition lock (EZS)	<p>U118200 - The chassis CAN network management is unstable. _</p> <p>U118100 - The chassis CAN 2 network management is unstable.</p> <p>U119800 - Communication with the intelligent servo module (ISM) has a malfunction. _ (NOT(..../Kontexte/Kontext.xml#intern/Sparten/MB_PKW/Getriebe/Schaltgetriebe))</p>
N73 - Electronic ignition lock (EZS)	<p>U118200 - The chassis CAN network management is unstable. _</p> <p>U118100 - The chassis CAN 2 network management is unstable.</p> <p>U119800 - Communication with the intelligent servo module (ISM) has a malfunction. _ (NOT(..../Kontexte/Kontext.xml#intern/Sparten/MB_PKW/Getriebe/Schaltgetriebe))</p>

XENTRY TIPS

A1 - Instrument cluster (IC)	<p>U021287 - Communication with the steering column module has a malfunction. The message is missing.</p> <p>U016887 - Communication with the electronic ignition lock has a malfunction. The message is missing.</p> <p>U015187 - Communication with the supplemental restraint system (SRS) has a malfunction. The message is missing.</p> <p>U015987 - Communication with PARKTRONIC has a malfunction. The message is missing. (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U015987))</p> <p>U010100 - Communication with control unit "Transmission" has a malfunction. _ (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U010100%20Getriebe))</p> <p>U012887 - Communication with the electric parking brake has a malfunction. The message is missing. (NOT(#data/IC172/KIG_1_D2_Muster/G%C3%BCtigkeitkeiten/U012887))</p> <p>U103288 - Chassis CAN communication has a malfunction. Bus OFF</p> <p>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))</p> <p>U013187 - Communication with control unit "Power steering" has a malfunction. The message is missing.</p> <p>U11A687 - Communication with control unit 'Radar sensors' has a malfunction. The message is missing.</p>
A1 - Instrument cluster (IC)	<p>U021287 - Communication with the steering column module has a malfunction. The message is missing.</p> <p>U016887 - Communication with the electronic ignition lock has a malfunction. The message is missing.</p> <p>U015187 - Communication with the supplemental restraint system (SRS) has a malfunction. The message is missing.</p> <p>U015987 - Communication with PARKTRONIC has a malfunction. The message is missing. (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U015987))</p> <p>U010100 - Communication with control unit "Transmission" has a malfunction. _ (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U010100%20Getriebe))</p> <p>U012887 - Communication with the electric parking brake has a malfunction. The message is missing. (NO-</p>

XENTRY TIPS

	<p>T(#data/IC172/KIG_1_D2_Muster/G%C3%BCltigkeiten/U012887))</p> <p>U103288 - Chassis CAN communication has a malfunction. Bus OFF</p> <p>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))</p> <p>U013187 - Communication with control unit "Power steering" has a malfunction. The message is missing.</p> <p>U11A687 - Communication with control unit 'Radar sensors' has a malfunction. The message is missing.</p>
A1 - Instrument cluster (IC)	<p>U021287 - Communication with the steering column module has a malfunction. The message is missing.</p> <p>U016887 - Communication with the electronic ignition lock has a malfunction. The message is missing.</p> <p>U015187 - Communication with the supplemental restraint system (SRS) has a malfunction. The message is missing.</p> <p>U015987 - Communication with PARKTRONIC has a malfunction. The message is missing. (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U015987))</p> <p>U010100 - Communication with control unit "Transmission" has a malfunction. _ (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U010100%20Getriebe))</p> <p>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))</p> <p>U103288 - Chassis CAN communication has a malfunction. Bus OFF</p> <p>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))</p> <p>U013187 - Communication with control unit "Power steering" has a malfunction. The message is missing.</p> <p>U11A687 - Communication with control unit 'Radar sensors' has a malfunction. The message is missing.</p>
A1 - Instrument cluster (IC)	<p>U021287 - Communication with the steering column module has a malfunction. The message is missing.</p>

XENTRY TIPS

	<p>U016887 - Communication with the electronic ignition lock has a malfunction. The message is missing.</p> <p>U015187 - Communication with the supplemental restraint system (SRS) has a malfunction. The message is missing.</p> <p>U015987 - Communication with PARKTRONIC has a malfunction. The message is missing. (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U015987))</p> <p>U010100 - Communication with control unit "Transmission" has a malfunction. _ (NOT(#data/IC_204/IC_204%20base/Gueltigkeiten/U010100%20Getriebe))</p> <p>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))</p> <p>U103288 - Chassis CAN communication has a malfunction. Bus OFF</p> <p>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))</p> <p>U013187 - Communication with control unit "Power steering" has a malfunction. The message is missing.</p> <p>U11A687 - Communication with control unit 'Radar sensors' has a malfunction. The message is missing.</p>
N73 - Electronic ignition lock (EZS)	<p>U012287 - Communication with control unit 'Traction system' has a malfunction. The message is missing.</p> <p>U012208 - Communication with control unit 'Traction system' has a malfunction. There is a signal fault or the message is faulty.</p>
N73 - Electronic ignition lock (EZS)	<p>U012287 - Communication with control unit 'Traction system' has a malfunction. The message is missing.</p> <p>U012208 - Communication with control unit 'Traction system' has a malfunction. There is a signal fault or the message is faulty.</p>
N73 - Electronic ignition lock (EZS)	<p>U012287 - Communication with control unit 'Traction system' has a malfunction. The message is missing.</p> <p>U012208 - Communication with control unit 'Traction system' has a malfunction. There is a signal fault or the message is faulty.</p>
N73 - Electronic ignition lock (EZS)	<p>U012287 - Communication with control unit 'Traction system' has a malfunction. The message is missing.</p>

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	U012208 - Communication with control unit 'Traction system' has a malfunction. There is a signal fault or the message is faulty.
N68 - Electrical power steering (ES)	U045A86 - Implausible data were received from control unit 'Parking system'. There is an incorrect signal. U041586 - Implausible data were received from control unit 'Traction system'. There is an incorrect signal.
N68 - Electrical power steering (ES)	U045A86 - Implausible data were received from control unit 'Parking system'. There is an incorrect signal. U041586 - Implausible data were received from control unit 'Traction system'. There is an incorrect signal.
N68 - Electrical power steering (ES)	U045A86 - Implausible data were received from control unit 'Parking system'. There is an incorrect signal. U041586 - Implausible data were received from control unit 'Traction system'. There is an incorrect signal.
N68 - Electrical power steering (ES)	U045A86 - Implausible data were received from control unit 'Parking system'. There is an incorrect signal. U041586 - Implausible data were received from control unit 'Traction system'. There is an incorrect signal.
N2/10 - Supplemental restraint system (SRS)	U103288 - Chassis CAN communication has a malfunction. Bus OFF
N2/10 - Supplemental restraint system (SRS)	U103288 - Chassis CAN communication has a malfunction. Bus OFF
N2/10 - Supplemental restraint system (SRS)	U103288 - Chassis CAN communication has a malfunction. Bus OFF
N2/10 - Supplemental restraint system (SRS)	U103288 - Chassis CAN communication has a malfunction. Bus OFF
Y3/14n4 / N15/13 - Electronic transmission control for double-plate clutch transmission (DKG)	C11187 - Communication with control unit "Battery" has a malfunction. The message is missing. C00188 - Drive train CAN communication has a malfunction. Bus OFF C14187 - Communication with the front signal acquisition and actuation module has a malfunction. The message is missing. C10F87 - Communication with control unit 'Electric A/C compressor' has a malfunction. The message is missing. C29187 - Communication with the electronic selector lever module has a malfunction. The message is missing. C12987 - Communication with control unit "Regenerative braking system" has a malfunction. The message is missing. C00100 - Drive train CAN communication has a malfunction. _

XENTRY TIPS

	<p>C15587 - Communication with the instrument cluster has a malfunction. The message is missing.</p> <p>C14687 - Communication with the central gateway has a malfunction. The message is missing.</p> <p>C12887 - Communication with the electric parking brake has a malfunction. The message is missing.</p> <p>C12187 - Communication with ESP has a malfunction. The message is missing.</p>
<p>Y3/14n4 / N15/13 - Electronic transmission control for double-plate clutch transmission (DKG)</p>	<p>C11187 - Communication with control unit "Battery" has a malfunction. The message is missing.</p> <p>C00188 - Drive train CAN communication has a malfunction. Bus OFF</p> <p>C14187 - Communication with the front signal acquisition and actuation module has a malfunction. The message is missing.</p> <p>C10F87 - Communication with control unit 'Electric A/C compressor' has a malfunction. The message is missing.</p> <p>C29187 - Communication with the electronic selector lever module has a malfunction. The message is missing.</p> <p>C12987 - Communication with control unit "Regenerative braking system" has a malfunction. The message is missing.</p> <p>C00100 - Drive train CAN communication has a malfunction. _</p> <p>C15587 - Communication with the instrument cluster has a malfunction. The message is missing.</p> <p>C14687 - Communication with the central gateway has a malfunction. The message is missing.</p> <p>C12887 - Communication with the electric parking brake has a malfunction. The message is missing.</p> <p>C12187 - Communication with ESP has a malfunction. The message is missing.</p>
<p>Y3/14n4 / N15/13 - Electronic transmission control for double-plate clutch transmission (DKG)</p>	<p>C11187 - Communication with control unit "Battery" has a malfunction. The message is missing.</p> <p>C00188 - Drive train CAN communication has a malfunction. Bus OFF</p> <p>C14187 - Communication with the front signal acquisition and actuation module has a malfunction. The message is missing.</p> <p>C10F87 - Communication with control unit 'Electric A/C compressor' has a malfunction. The message is missing.</p>

XENTRY TIPS

	<p>C29187 - Communication with the electronic selector lever module has a malfunction. The message is missing.</p> <p>C12987 - Communication with control unit "Regenerative braking system" has a malfunction. The message is missing.</p> <p>C00100 - Drive train CAN communication has a malfunction. _</p> <p>C15587 - Communication with the instrument cluster has a malfunction. The message is missing.</p> <p>C14687 - Communication with the central gateway has a malfunction. The message is missing.</p> <p>C12887 - Communication with the electric parking brake has a malfunction. The message is missing.</p> <p>C12187 - Communication with ESP has a malfunction. The message is missing.</p>
<p>Y3/14n4 / N15/13 - Electronic transmission control for double-plate clutch transmission (DKG)</p>	<p>C11187 - Communication with control unit "Battery" has a malfunction. The message is missing.</p> <p>C00188 - Drive train CAN communication has a malfunction. Bus OFF</p> <p>C14187 - Communication with the front signal acquisition and actuation module has a malfunction. The message is missing.</p> <p>C10F87 - Communication with control unit 'Electric A/C compressor' has a malfunction. The message is missing.</p> <p>C29187 - Communication with the electronic selector lever module has a malfunction. The message is missing.</p> <p>C12987 - Communication with control unit "Regenerative braking system" has a malfunction. The message is missing.</p> <p>C00100 - Drive train CAN communication has a malfunction. _</p> <p>C15587 - Communication with the instrument cluster has a malfunction. The message is missing.</p> <p>C14687 - Communication with the central gateway has a malfunction. The message is missing.</p> <p>C12887 - Communication with the electric parking brake has a malfunction. The message is missing.</p> <p>C12187 - Communication with ESP has a malfunction. The message is missing.</p>
<p>N30/4 - Electronic stability program (ESP®)</p>	<p>C022400 - The CAN line has an open circuit.</p>

XENTRY TIPS

	<p>C073B00 - The CAN message from control unit 'N73 (Electronic ignition lock control unit)' is faulty.</p> <p>C022000 - The CAN lines have a short circuit to each other.</p> <p>C063100 - No CAN message was received from control unit 'N68 (Electric power steering control unit)'.</p> <p>C073200 - One or more signals sent from control unit 'Shift module' via the CAN bus is implausible.</p> <p>C084000 - No CAN message was received from control unit 'N73 (Electronic ignition lock control unit)'.</p>
N30/4 - Electronic stability program (ESP®)	<p>C022400 - The CAN line has an open circuit.</p> <p>C073B00 - The CAN message from control unit 'N73 (Electronic ignition lock control unit)' is faulty.</p> <p>C022000 - The CAN lines have a short circuit to each other.</p> <p>C063100 - No CAN message was received from control unit 'N68 (Electric power steering control unit)'.</p> <p>C073200 - One or more signals sent from control unit 'Shift module' via the CAN bus is implausible.</p> <p>C084000 - No CAN message was received from control unit 'N73 (Electronic ignition lock control unit)'.</p>
N30/4 - Electronic stability program (ESP®)	<p>C022400 - The CAN line has an open circuit.</p> <p>C073B00 - The CAN message from control unit 'N73 (Electronic ignition lock control unit)' is faulty.</p> <p>C022000 - The CAN lines have a short circuit to each other.</p> <p>C063100 - No CAN message was received from control unit 'N68 (Electric power steering control unit)'.</p> <p>C073200 - One or more signals sent from control unit 'Shift module' via the CAN bus is implausible.</p> <p>C084000 - No CAN message was received from control unit 'N73 (Electronic ignition lock control unit)'.</p>
N30/4 - Electronic stability program (ESP®)	<p>C022400 - The CAN line has an open circuit.</p> <p>C073B00 - The CAN message from control unit 'N73 (Electronic ignition lock control unit)' is faulty.</p> <p>C022000 - The CAN lines have a short circuit to each other.</p> <p>C063100 - No CAN message was received from control unit 'N68 (Electric power steering control unit)'.</p>

XENTRY TIPS

	<p>C073200 - One or more signals sent from control unit 'Shift module' via the CAN bus is implausible.</p> <p>C084000 - No CAN message was received from control unit 'N73 (Electronic ignition lock control unit)'.</p>
N128 - Electric parking brake (EFB)	<p>U016800 - Communication with the electronic ignition lock has a malfunction.</p> <p>U102788 - Chassis CAN bus OFF fault Bus OFF</p> <p>U012100 - Communication with ESP has a malfunction.</p> <p>U103200 - Chassis CAN communication has a malfunction.</p> <p>U102700 - Chassis CAN bus OFF fault</p>
N128 - Electric parking brake (EFB)	<p>U016800 - Communication with the electronic ignition lock has a malfunction.</p> <p>U102788 - Chassis CAN bus OFF fault Bus OFF</p> <p>U012100 - Communication with ESP has a malfunction.</p> <p>U103200 - Chassis CAN communication has a malfunction.</p> <p>U102700 - Chassis CAN bus OFF fault</p>
N128 - Electric parking brake (EFB)	<p>U016800 - Communication with the electronic ignition lock has a malfunction.</p> <p>U102788 - Chassis CAN bus OFF fault Bus OFF</p> <p>U012100 - Communication with ESP has a malfunction.</p> <p>U103200 - Chassis CAN communication has a malfunction.</p> <p>U102700 - Chassis CAN bus OFF fault</p>
N128 - Electric parking brake (EFB)	<p>U016800 - Communication with the electronic ignition lock has a malfunction.</p> <p>U102788 - Chassis CAN bus OFF fault Bus OFF</p> <p>U012100 - Communication with ESP has a malfunction.</p> <p>U103200 - Chassis CAN communication has a malfunction.</p> <p>U102700 - Chassis CAN bus OFF fault</p>
N10 - Signal acquisition and actuation module (SAM)	U012687 - Communication with the steering column module has a malfunction. The message is missing.
N10 - Signal acquisition and actuation module (SAM)	U012687 - Communication with the steering column module has a malfunction. The message is missing.
N10 - Signal acquisition and actuation module (SAM)	U012687 - Communication with the steering column module has a malfunction. The message is missing.

XENTRY TIPS

N10 - Signal acquisition and actuation module (SAM)	U012687 - Communication with the steering column module has a malfunction. The message is missing.
N62 - Parking system (PTS)	U103288 - Chassis CAN communication has a malfunction. Bus OFF
N62 - Parking system (PTS)	U103288 - Chassis CAN communication has a malfunction. Bus OFF
N80 - Steering column module (SCM)	U103200 - Chassis CAN communication has a malfunction. _
N80 - Steering column module (SCM)	U103200 - Chassis CAN communication has a malfunction. _
N80 - Steering column module (SCM)	U103200 - Chassis CAN communication has a malfunction. _
N80 - Steering column module (SCM)	U103200 - Chassis CAN communication has a malfunction. _

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
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PreSafe, Blind Spot Assist and Distro- nic error messages in instrument cluster

Topic number	LI54.21-P-065146
Version	3
Function group	54.21 - Control units / basic modules
Date	1/6/20
Validity	Model 166 or 292 with engine type 642
Reason for change	Text adaptation

Complaint

In the instrument cluster, error messages for PreSafe, Blind Spot Assist and DISTRONIC are temporarily shown alternately.

Furthermore, CAN communication fault codes are stored in various control units.

- "Bus OFF" fault codes filed on various control units -> CAN line may be short circuit to ground.

Attachments	
File	Description
1.pdf	Complaint
1.jpg	Complaint
	

Cause

Wiring harness may have chafe mark in area of metal bracket for oxygen sensor upstream of catalytic converter or differential pressure sensor B28/8 retaining clamp, possibly caused by faulty mounting / routing of wiring harness.

Distance of fastening points may not be properly maintained. 2016-02-08 optimization of clip, cable tie and additional tape.

Remedy

Repair wiring harness and position clips / cable straps correctly.

Attachment 3 (Point 1):

XENTRY TIPS

- Change to cable strap from A 000 995 82 90 to A 005 997 62 90 and shifted from 90 mm to 100 mm, also rotate clip from 3-o'clock position to a 6-o'clock position.
- Change to cable strap from A 000 995 82 90 to A 000 995 12 90 and shift to new dimension of 255 mm, also rotate clip from a 3-o'clock position to a 6-o'clock position.
- Move cable duct line guide A 222 546 62 80 (not replacement part) from 468 mm to 488 +/-5 mm.
- Move cable strap A 000 995 65 90 from 740 mm to 750 mm, also rotate clip from 9-o'clock position to 6-o'clock position.

Attachment 3 (Point 2):


- Distance between grommet for cable strap and cable strap must be in tolerance range of 146 and 176 mm. Picture shows a "bad" example with only 110 mm.

Attachment 3 (Point 3):

- Picture shows "bad" example of clip direction.

Attachment 3 (Point 4):

- Picture shows "good" example of clip direction.

Attachments	
File	Description
2.pdf	Remedy
3.jpg	Remedy
	

WIS-References		
Document number	Title	Note
AR00.19-P-0100A	Wiring harness general repair methods	General notes on wiring harness repairs
AR00.19-P-0100-09A	Repair wiring harness using solder connectors	

Symptoms
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit
Overall vehicle > Wiring > Cable damaged/faulty
Overall vehicle > Networking > CAN/FlexRay communication > Malfunction

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0059976290			Cable strap	1		X
A0009951290			Cable strap	1		X
A0009956590			Cable strap	1		X

XENTRY TIPS

A0015469941			Terminal solder connector			X
A0079890785			G12 - Polyester fabric tape	1	Use: Engine compartment Width 19 mm, 25 m roll.	X

Control unit/fault code	
Control unit	Fault text
Y3/8n4 - Transmission control for 9-speed transmission (VGS)	<p>U010000 - Communication with the control unit 'combustion engine' has a malfunction. _</p> <p>U012100 - Communication with ESP has a malfunction. _</p> <p>U012600 - Communication with the steering column module has a malfunction. _</p> <p>U016400 - Communication with the air conditioning has a malfunction. _</p> <p>U015531 - Communication with the instrument cluster has a malfunction. The signal is not present.</p> <p>U014600 - Communication with the central gateway has a malfunction. _</p> <p>U016800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>U002800 - Communication with the drivetrain CAN bus has a malfunction. _</p>
Y3/8n4 - Transmission control for 9-speed transmission (VGS)	<p>U010000 - Communication with the control unit 'combustion engine' has a malfunction. _</p> <p>U012100 - Communication with ESP has a malfunction. _</p> <p>U012600 - Communication with the steering column module has a malfunction. _</p> <p>U016400 - Communication with the air conditioning has a malfunction. _</p> <p>U015531 - Communication with the instrument cluster has a malfunction. The signal is not present.</p> <p>U014600 - Communication with the central gateway has a malfunction. _</p> <p>U016800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>U002800 - Communication with the drivetrain CAN bus has a malfunction. _</p>
Y3/8n4 - Transmission control for 9-speed transmission (VGS)	<p>U010000 - Communication with the control unit 'combustion engine' has a malfunction. _</p> <p>U012100 - Communication with ESP has a malfunction. _</p> <p>U012600 - Communication with the steering column module has a malfunction. _</p>

XENTRY TIPS

	<p>U016400 - Communication with the air conditioning has a malfunction. _</p> <p>U015531 - Communication with the instrument cluster has a malfunction. The signal is not present.</p> <p>U014600 - Communication with the central gateway has a malfunction. _</p> <p>U016800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>U002800 - Communication with the drivetrain CAN bus has a malfunction. _</p>
A1 - Instrument cluster (IC)	<p>U015987 - Communication with PARKTRONIC has a malfunction. The message is missing.</p> <p>U010100 - Communication with control unit "Transmission" has a malfunction. _</p>
A1 - Instrument cluster (IC)	<p>U015987 - Communication with PARKTRONIC has a malfunction. The message is missing.</p> <p>U010100 - Communication with control unit "Transmission" has a malfunction. _</p>
A1 - Instrument cluster (IC)	<p>U015987 - Communication with PARKTRONIC has a malfunction. The message is missing.</p> <p>U010100 - Communication with control unit "Transmission" has a malfunction. _</p>
N3/9 - Motor electronics 'CDI61' for combustion engine 'OM642' (CDI)	<p>U004688 - Communication with the drive train sensor CAN bus has a malfunction. Bus OFF</p> <p>P056013 - The on-board electrical system voltage has a malfunction. There is an open circuit.</p> <p>P025311 - The output for the quantity control valve has a short circuit to ground. There is a short circuit to ground.</p> <p>P040511 - The position sensor of the exhaust gas recirculation positioner (high pressure) has a short circuit to ground. There is a short circuit to ground.</p> <p>P0087FC - The fuel pressure in the system is too low. _</p> <p>P06A900 - Output 4 for the reference voltage of the sensors has a malfunction. _</p> <p>U014087 - Communication with the signal acquisition and actuation module has a malfunction. The message is missing.</p> <p>U010E00 - Communication with the control unit 'AdBlue®' has a malfunction. _</p> <p>U010387 - Communication with the electronic selector lever module has a malfunction. The message is missing.</p>

XENTRY TIPS

	<p>P04042F - The actuation of the exhaust gas recirculation positioner (high pressure) has a malfunction. There is an erratic signal.</p> <p>U021287 - Communication with the steering column module has a malfunction. The message is missing.</p> <p>U011187 - Communication with control unit "Battery" has a malfunction. The message is missing.</p> <p>U013287 - Communication with control unit "Suspension" has a malfunction. The message is missing.</p> <p>P009111 - Fuel pressure regulating valve 1 has a short circuit to ground. There is a short circuit to ground.</p>
<p>N3/9 - Motor electronics 'CDI61' for combustion engine 'OM642' (CDI)</p>	<p>U004688 - Communication with the drive train sensor CAN bus has a malfunction. Bus OFF</p> <p>P056013 - The on-board electrical system voltage has a malfunction. There is an open circuit.</p> <p>P025311 - The output for the quantity control valve has a short circuit to ground. There is a short circuit to ground.</p> <p>P040511 - The position sensor of the exhaust gas recirculation positioner (high pressure) has a short circuit to ground. There is a short circuit to ground.</p> <p>P0087FC - The fuel pressure in the system is too low. _</p> <p>P06A900 - Output 4 for the reference voltage of the sensors has a malfunction. _</p> <p>U014087 - Communication with the signal acquisition and actuation module has a malfunction. The message is missing.</p> <p>U010E00 - Communication with the control unit 'AdBlue®' has a malfunction. _</p> <p>U010387 - Communication with the electronic selector lever module has a malfunction. The message is missing.</p> <p>P04042F - The actuation of the exhaust gas recirculation positioner (high pressure) has a malfunction. There is an erratic signal.</p> <p>U021287 - Communication with the steering column module has a malfunction. The message is missing.</p> <p>U011187 - Communication with control unit "Battery" has a malfunction. The message is missing.</p> <p>U013287 - Communication with control unit "Suspension" has a malfunction. The message is missing.</p> <p>P009111 - Fuel pressure regulating valve 1 has a short circuit to ground. There is a short circuit to ground.</p>

XENTRY TIPS

<p>N3/9 - Motor electronics 'CDI61' for combustion engine 'OM642' (CDI)</p>	<p>U004688 - Communication with the drive train sensor CAN bus has a malfunction. Bus OFF</p> <p>P056013 - The on-board electrical system voltage has a malfunction. There is an open circuit.</p> <p>P025311 - The output for the quantity control valve has a short circuit to ground. There is a short circuit to ground.</p> <p>P040511 - The position sensor of the exhaust gas recirculation positioner (high pressure) has a short circuit to ground. There is a short circuit to ground.</p> <p>P0087FC - The fuel pressure in the system is too low. _</p> <p>P06A900 - Output 4 for the reference voltage of the sensors has a malfunction. _</p> <p>U014087 - Communication with the signal acquisition and actuation module has a malfunction. The message is missing.</p> <p>U010E00 - Communication with the control unit 'AdBlue®' has a malfunction. _</p> <p>U010387 - Communication with the electronic selector lever module has a malfunction. The message is missing.</p> <p>P04042F - The actuation of the exhaust gas recirculation positioner (high pressure) has a malfunction. There is an erratic signal.</p> <p>U021287 - Communication with the steering column module has a malfunction. The message is missing.</p> <p>U011187 - Communication with control unit "Battery" has a malfunction. The message is missing.</p> <p>U013287 - Communication with control unit "Suspension" has a malfunction. The message is missing.</p> <p>P009111 - Fuel pressure regulating valve 1 has a short circuit to ground. There is a short circuit to ground.</p>
<p>N118/5 - Selective catalytic reduction (SCR 02)</p>	<p>U041608 - Implausible data were received from control unit 'Traction system'. There is a signal fault or the message is faulty.</p>
<p>N118/5 - Selective catalytic reduction (SCR 02)</p>	<p>U041608 - Implausible data were received from control unit 'Traction system'. There is a signal fault or the message is faulty.</p>
<p>N118/5 - Selective catalytic reduction (SCR 02)</p>	<p>U041608 - Implausible data were received from control unit 'Traction system'. There is a signal fault or the message is faulty.</p>
<p>A90 - Control unit 'COLLISION PREVENTION ASSIST' (SG-AWF)</p>	<p>U0401FD - The CAN message from control unit 'Motor electronics' is faulty.</p>

XENTRY TIPS

	<p>U010087 - Chassis CAN bus : One or more messages transmitted by control unit 'Motor electronics' via the CAN bus are intermittently not available.</p> <p>U021287 - Chassis CAN bus : One or more messages transmitted by control unit 'N80 (Steering column tube module control unit)' via the CAN bus are intermittently not available.</p>
A90 - Control unit 'COLLISION PREVENTION ASSIST' (SG-AWF)	<p>U0401FD - The CAN message from control unit 'Motor electronics' is faulty.</p> <p>U010087 - Chassis CAN bus : One or more messages transmitted by control unit 'Motor electronics' via the CAN bus are intermittently not available.</p> <p>U021287 - Chassis CAN bus : One or more messages transmitted by control unit 'N80 (Steering column tube module control unit)' via the CAN bus are intermittently not available.</p>
A90 - Control unit 'COLLISION PREVENTION ASSIST' (SG-AWF)	<p>U0401FD - The CAN message from control unit 'Motor electronics' is faulty.</p> <p>U010087 - Chassis CAN bus : One or more messages transmitted by control unit 'Motor electronics' via the CAN bus are intermittently not available.</p> <p>U021287 - Chassis CAN bus : One or more messages transmitted by control unit 'N80 (Steering column tube module control unit)' via the CAN bus are intermittently not available.</p>
N118 - Control unit 'Fuel pump' (FSCU05)	<p>C16800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>C40100 - This error code can be ignored and erased.</p> <p>124000 - The CAN bus has a malfunction. _</p>
N118 - Control unit 'Fuel pump' (FSCU05)	<p>C16800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>C40100 - This error code can be ignored and erased.</p> <p>124000 - The CAN bus has a malfunction. _</p>
N118 - Control unit 'Fuel pump' (FSCU05)	<p>C16800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>C40100 - This error code can be ignored and erased.</p> <p>124000 - The CAN bus has a malfunction. _</p>
N30/4 - Electronic stability program (ESP®)	<p>C067A00 - There is an internal fault in control unit 'A80 (Intelligent servo module for DIRECT SELECT)'. C074C00 - No CAN message was received from control unit 'Transmission'. C075600 - No CAN message was received from control unit 'Transmission'.</p>

XENTRY TIPS

	<p>C075500 - No CAN message was received from control unit 'Transmission'.</p> <p>C078300 - The CAN message from control unit 'N68 (Electric power steering control unit)' is faulty.</p> <p>C076100 - Chassis CAN bus OFF fault</p>
N30/4 - Electronic stability program (ESP®)	<p>C067A00 - There is an internal fault in control unit 'A80 (Intelligent servo module for DIRECT SELECT)'.</p> <p>C074C00 - No CAN message was received from control unit 'Transmission'.</p> <p>C075600 - No CAN message was received from control unit 'Transmission'.</p> <p>C075500 - No CAN message was received from control unit 'Transmission'.</p> <p>C078300 - The CAN message from control unit 'N68 (Electric power steering control unit)' is faulty.</p> <p>C076100 - Chassis CAN bus OFF fault</p>
N30/4 - Electronic stability program (ESP®)	<p>C067A00 - There is an internal fault in control unit 'A80 (Intelligent servo module for DIRECT SELECT)'.</p> <p>C074C00 - No CAN message was received from control unit 'Transmission'.</p> <p>C075600 - No CAN message was received from control unit 'Transmission'.</p> <p>C075500 - No CAN message was received from control unit 'Transmission'.</p> <p>C078300 - The CAN message from control unit 'N68 (Electric power steering control unit)' is faulty.</p> <p>C076100 - Chassis CAN bus OFF fault</p>
N62/1 (Radar sensors control unit)	<p>U01008F - One or more messages transmitted by control unit 'Motor electronics' via the CAN bus are intermittently not available.</p> <p>U0416E2 - One or more signals sent from control unit 'N30/4 (Electronic Stability Program control unit)' via the CAN bus is implausible.</p> <p>U040200 - The CAN message from control unit 'Electronic transmission control' is faulty.</p>
N62/1 (Radar sensors control unit)	<p>U01008F - One or more messages transmitted by control unit 'Motor electronics' via the CAN bus are intermittently not available.</p> <p>U0416E2 - One or more signals sent from control unit 'N30/4 (Electronic Stability Program control unit)' via the CAN bus is implausible.</p>

XENTRY TIPS

	U040200 - The CAN message from control unit 'Electronic transmission control' is faulty.
N62/1 (Radar sensors control unit)	U01008F - One or more messages transmitted by control unit 'Motor electronics' via the CAN bus are intermittently not available. U0416E2 - One or more signals sent from control unit 'N30/4 (Electronic Stability Program control unit)' via the CAN bus is implausible. U040200 - The CAN message from control unit 'Electronic transmission control' is faulty.
N128 - Electric parking brake (EFB)	U010100 - No CAN message was received from control unit 'Transmission'. U102788 - Chassis CAN bus OFF fault Bus OFF
N128 - Electric parking brake (EFB)	U010100 - No CAN message was received from control unit 'Transmission'. U102788 - Chassis CAN bus OFF fault Bus OFF
N128 - Electric parking brake (EFB)	U010100 - No CAN message was received from control unit 'Transmission'. U102788 - Chassis CAN bus OFF fault Bus OFF
B84/3 - Backup camera (RFK)	U010187 - Communication with control unit "Transmission" has a malfunction. The message is missing.
B84/3 - Backup camera (RFK)	U010187 - Communication with control unit "Transmission" has a malfunction. The message is missing.
N68 - Electrical power steering (ES)	U010100 - Communication with control unit "Transmission" has a malfunction. _
N68 - Electrical power steering (ES)	U010100 - Communication with control unit "Transmission" has a malfunction. _
N68 - Electrical power steering (ES)	U010100 - Communication with control unit "Transmission" has a malfunction. _
A76 - Left front reversible emergency tensioning retractor (RevETR-LF)	U015100 - Communication with the supplemental restraint system (SRS) has a malfunction. _ U012100 - Communication with ESP has a malfunction. _ U014600 - Communication with the central gateway has a malfunction. _ U000188 - Drive train CAN communication has a malfunction. Bus OFF U016800 - Communication with the electronic ignition lock has a malfunction. _ U010000 - Communication with the control unit 'combustion engine' has a malfunction. _ U014100 - Communication with the front signal acquisition and actuation module has a malfunction. _

XENTRY TIPS

A76 - Left front reversible emergency tensioning retractor (RevETR-LF)	<p>U015100 - Communication with the supplemental restraint system (SRS) has a malfunction. _</p> <p>U012100 - Communication with ESP has a malfunction. _</p> <p>U014600 - Communication with the central gateway has a malfunction. _</p> <p>U000188 - Drive train CAN communication has a malfunction. Bus OFF</p> <p>U016800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>U010000 - Communication with the control unit 'combustion engine' has a malfunction. _</p> <p>U014100 - Communication with the front signal acquisition and actuation module has a malfunction. _</p>
A76 - Left front reversible emergency tensioning retractor (RevETR-LF)	<p>U015100 - Communication with the supplemental restraint system (SRS) has a malfunction. _</p> <p>U012100 - Communication with ESP has a malfunction. _</p> <p>U014600 - Communication with the central gateway has a malfunction. _</p> <p>U000188 - Drive train CAN communication has a malfunction. Bus OFF</p> <p>U016800 - Communication with the electronic ignition lock has a malfunction. _</p> <p>U010000 - Communication with the control unit 'combustion engine' has a malfunction. _</p> <p>U014100 - Communication with the front signal acquisition and actuation module has a malfunction. _</p>
B84/3 - Backup camera (RFK)	U042000 - Implausible data were received from control unit "Power steering". _
B84/3 - Backup camera (RFK)	U042000 - Implausible data were received from control unit "Power steering". _
B84/3 - Backup camera (RFK)	U042000 - Implausible data were received from control unit "Power steering". _
A76/1 - Right front reversible emergency tensioning retractor (RevETR-RF)	U000188 - Drive train CAN communication has a malfunction. Bus OFF
A76/1 - Right front reversible emergency tensioning retractor (RevETR-RF)	U000188 - Drive train CAN communication has a malfunction. Bus OFF
A76/1 - Right front reversible emergency tensioning retractor (RevETR-RF)	U000188 - Drive train CAN communication has a malfunction. Bus OFF
N51/3 - AIRMATIC	U102700 - Chassis CAN bus OFF fault _
N51/3 - AIRMATIC	U102700 - Chassis CAN bus OFF fault _

Operation numbers/damage codes

XENTRY TIPS

Op. no.	Operation text	Time	Damage code	Note
			598DF22	Connector/line* F for diesel engine control unit chafes
			5978022	K/Z* differential pressure sensor chafes

Segments in speedometer no longer displayed when Distronic Plus is active

Topic number	LI54.30-P-058923
Version	2
Function group	54.30 - Instrument cluster, display instruments, hazard warning device
Date	11/14/17
Validity	Model 117, 156, 166, 172, 176, 231, 246, 251, 463 with Distronic Plus (code 239)
Reason for change	dc

Complaint

When the Distronic/ cruise control is set following a workshop visit, the segments in the speedometer are no longer displayed or no longer illuminate.

The segments in the speedometer normally light up in the range between the speed set with Distronic Plus and the current driving speed.

Cause

A diagnosis session on the instrument cluster control unit (A1) or a reset of the maintenance data using Xentry Diagnostics can result in a faulty display of the segments (Distronic Plus) in the instrument cluster (A1).

Remedy

Perform control unit reset on instrument cluster (A1) using Xentry Diagnostics.

Note:

Do not replace any parts and do not perform any software updates.

Symptoms
Communication/information > Information display > Displays > Speedometer, analog > Malfunction
Communication/information > Information display > Overall component > Instrument cluster, background illumination > Fails
Communication/information > Information display > Indicator lamp > Malfunction
Communication/information > Information display > Tachograph > Function > Incorrectly displays

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
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XENTRY TIPS

542306	CONTROL UNIT: INSTRUMENT CLUSTER. PERFORM RESET		54466EA	
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Instrument cluster: Assistance graphic freezes

Topic number	LI54.30-P-061864
Version	1
Function group	54.30 - Instrument cluster, display instruments, hazard warning device
Date	7/17/15
Validity	Model 218 as of VIN *****A141977 up to VIN *****A148184 Model 212 as of VIN *****B085484 up to VIN *****B177229
Reason for change	

Complaint

The assistance graphic can freeze if a DISTRONIC speed is set and then immediately canceled.

Cause

Instrument cluster software.

Remedy

Perform control unit programming of instrument cluster (A1) with XENTRY Diagnostics 05/2015 or higher.

Do not remove/install or replace any parts.

Symptoms				
Communication/information > Information display > Displays > Multifunction display > Multifunction display, menu > Not operable				
Communication/information > Information display > Displays > Multifunction display > Multifunction display, menu > Faulty display				
Communication/information > Information display > Displays > Multifunction display > Multifunction display, error messages > Implausible messages despite properly functioning message systems				
Communication/information > Information display > Displays > Speedometer digital > Incorrect display				
Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
540650	MAINTAIN BATTERY VOLTAGE (FOR TESTING AND DIAGNOSIS WORK)	1 AW		
541011	PERFORM QUICK TEST	3 AW		
540991	INSTRUMENT CLUSTER CONTROL UNIT: INSTALL SOFTWARE (AFTER QUICK TEST)	4 AW		

Winter tire speed limit is activated automatically

Topic number	LI54.30-P-068427
Version	1
Function group	54.30 - Instrument cluster, display instruments, hazard warning device
Date	7/20/18
Validity	E63 AMG BR 213
Reason for change	

Complaint

Display in instrument cluster at 235 km/h (146mph) "Speed limit (winter tires) 240 km/h"

Speed is limited to 240 km/h (146 mph)

Cause

Lack of communication between ESP control unit and COMAND at system start.

Remedy

Updating of ESP control unit and COMAND control unit with XENTRY (version 05/2018 or higher)

Note:

Only one control unit may also be affected by the update.

Symptoms
Communication/information > Assistance and warning systems > DISTRONIC > Function > Implausible regulation
Communication/information > Assistance and warning systems > DISTRONIC > Display message > Function error
Communication/information > Assistance and warning systems > Speed Limit Assist > Warning message in instrument cluster

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

Distronic distance control - alleged arbitrary intervention

Topic number	LI54.70-P-066813
Version	2
Function group	54.70 - Proximity warning system
Date	7/24/17
Validity	BR166/292 without code 772 (AMG Sport Package) AND with code 266 (Distronic + lateral assistance)
Reason for change	Cause Revised

Complaint


When driving on freeways with Distronic activated, the driver perceives gentle, independent braking actions (comparable with normal distance control) although there are no vehicles in front.

The complaint occurs in the outside fast lane of freeways where the distance to structures separating the oncoming lane (e.g. guardrail) is small.

Cause

During complex traffic situations, the Distronic system may not be able to identify every possible traffic and road scenario. In these cases, gentle braking actions can occur.

Remember, it is the driver's responsibility to operate the vehicle safely and obey all laws.

Attachments	
File	Description
i.O. Verrastung Sensor.jpg 	Sensor adjustment OK
n.i.O. Verrastung Sensor.jpg	Sensor adjustment not OK

XENTRY TIPS



Remedy

1. Localize the complaint:

- 1.1 Does the event occur in the outside fast lane of freeways where the distance to structures separating the oncoming lane (e.g. guardrail) is small?
- 1.2 While the event is occurring, does the "assistance graphic" (setting in the instrument cluster) show a vehicle in front although there is no other vehicle ahead?
- 1.3 Are the sensors behind the front bumper (long range radar; 2x short range radar) installed correctly? (See pictures in attachment)

--> If the answer to all the questions is "Yes", continue with step 2.

--> If the answer to one or more questions is "No", please create a PTSS case.

2. Carry out remedy:

- 2.1 Check part number of short range radar sensors --> If current part number of inserted sensor is NOT A000 905 99 06, then please replace sensor to part number A000 905 99 06.
- 2.2 Create a PTSS case and request a new grid (cover/plastic trim in front of the radar sensors) via PTSS.

3. Verify that the remedial action performed functions properly in terms of the complaint and normal Distronic operation during a test drive.

Symptoms						
Communication/information > Assistance and warning systems > Distronic > Function > Implausible regulation						
Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0009059906			Radar sensor	2		X
Operation numbers/damage codes						
Op. no.	Operation text	Time	Damage code	Note		

Message in instrument cluster "DISTRONIC PLUS- Currently Unavailable - See Owner's Manual"

Topic number	LI88.40-P-058355
Version	4
Function group	88.40 - Engine hood, front flap
Date	3/23/16
Validity	All vehicles with DISTRONIC (code 219) or DISTRONIC PLUS (code 233/239)
Reason for change	coding

Complaint

Message in instrument cluster "DISTRONIC PLUS Currently Unavailable - See Owner's Manual" and "PRE-SAFE Functions Currently Restricted - See Owner's Manual".

Note: The cause and remedy described below apply only if the following conditions are met:

- The complaint was not caused by fouling of the cover plate or of the DISTRONIC sensor, by the accumulation of snow or ice, or by objects (e.g. detachable parts) obstructing the path of the radar beam. Also refer to the notes in WIS, XENTRY Diagnostics and the owner's manual. In case of doubt, ask the customer about the driving situation and weather conditions at the time the problem occurred.
- The complaint is not reproducible at the present time.
- At least one of the following fault codes is logged in the DISTRONIC control unit: 69E000, 69E200, C163AFA, C163AFB, C222D00, C22CD00.
- At the time of diagnosis the fault codes are only stored, not current and stored.
- The guided test for the stored fault code in XENTRY Diagnostics refers to this TIPS document.

Cause

Moisture ingress into the DISTRONIC cover plate due to damage or defects/cracks in the welding.

The DISTRONIC cover plate consists of several layers of plastic welded together. If water enters the weld due to a crack or defect, this can result in a high dampening effect on the radar beams, causing the complaint described above.

Remedy

Test procedure:

1. Erase fault memory of DISTRONIC control unit.
2. Remove DISTRONIC cover plate and immerse in a receptacle of soapy water (washing-up liquid, neutral soap).
3. Leave cover plate immersed in soapy water for at least 6 hours.
4. Remove cover plate from soapy water, dry externally, immediately install in the vehicle and immediately perform a test drive with activation of DISTRONIC.

If the above fault message appears in the instrument cluster during the test drive while DISTRONIC is operating, and then one or more of the above fault codes is logged again in the DISTRONIC control unit, then the DISTRONIC cover plate must be replaced.

WIS-References

XENTRY TIPS

Document number	Title	Note
AR88.40-P-4050NKB	Remove/install Mercedes star	

Symptoms

Communication/information > Assistance and warning systems > DISTRONIC > Display message > Function error

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0000000000			Determine the required replacement part from EPC	1	Only necessary if the result of the test indicates replacement of the DISTRONIC cover plate.	X

Control unit/fault code

Control unit	Fault text
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.

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	69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	69E000 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. 69E200 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
DTR-Distrionic	69E200 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body. 69E000 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body.
DTR-Distrionic	69E200 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body. 69E000 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body.
DTR-Distrionic	69E200 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body. 69E000 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body.
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DTR-Distrionic	69E200 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body. 69E000 - Event:Component 'A89 (DTR controller unit)' is blocked because of soiling or a foreign body.
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _

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	C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C163AFA - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _ C163AFB - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. _
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object. C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.
A89 - DISTRONIC (DTR)	C22CD00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.

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C222D00 - The control unit 'DISTRONIC' is blocked by dirt or by a foreign object.

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
540650	12V MAINTAIN		8815080	
541011	QUICK TEST		8815080	
883491	REMOVE DISTRONIC COVER AND SOAK IN SOAPY WATER 6 HRS		8815080	
009151	TEST DRIVE FOR DISTRONIC- SEPARATE PUNCH- IN/OUT MILES		8815080	
883491	ONLY IF NECESSARY (SEE REMEDY STEP 4)- REPLACE WITH NEW DISTRONIC COVER ON GRILL		8815080	