# Engine fan runs continuously, A/C operation nonfunctional or engine indicator lamp lights up sporadically

Topic number	LI83.30-P-064672
Version	2
Design group	83.30 Air conditioning
Date	08-17-2016
Validity	<ul> <li>Model 166 and 292 with engine 276.</li> <li>Clean points (fault rectified since): <ul> <li>New clip + rotated through 180°; Optimization of line routing, implementation of VIN: 4JGDA5GB5GA717187, Production: 20.01.2016.</li> <li>Use of protective hose X6, discontinuation of binding under protective hose, implementation of VIN: WDC1660631A775262, production: 04.05.2016.</li> <li>Splice shifted out of critical area, implementation of VIN: WDC1660561A81588, production: 25.07.2016.</li> <li>Bracket edge is rounded off/deburred to avoid any sharp edges, scheduled implementation: 16.09.2016.</li> </ul> </li> </ul>
Reason for change	Vehicle before code 806 may also be affected.
Reason for block	

## Complaint:

- On the fuse box, circuit 30g cockpit (F3/3) the electrical fuse f19 (AAC control and operating unit (N22/7)) is overloaded -> A/C operation nonfunctional.

- Engine fan runs continuously.

- Engine indicator lamp lights up sporadically.

- Pre-Safe warning message in the instrument cluster.

- Blind Spot Assist warning message in instrument cluster.

Attachments			
File	Description		
1.pdf	Chafe mark		

#### Cause:

Possible chaifing on bracket A2761500817 (between engine and major assembly partition wall) from routing of engine compartment wiring harness M276.

This affects the subharness for the electrical connection X22/2 to X30/21.

## Remedy:

The clip on the engine control unit F-connector (see attachment "2") has to be replaced by clip A0059976290, and the new clip has to be rotated through 180° and mounted.

The photo in attachment "2" shows the clip in the 9-o-clock position, the new clip has to be in a 3-o-clock position.

Please round off/deburr the edge of the bracket using a file.

Repair wiring harness using generally repair methods (AR00.19-P-0100A).

Attachments			
File	Description		
2.pdf	Clip for problem		

Symptoms
Power generation / Engine cooling system / Engine fan / Runs permanently
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit
Communication/information / Information display / Indicator lamp / lit
Overall vehicle / Wiring / Cable damaged/faulty
Overall vehicle / Networking / CAN/FlexRay communication / Malfunction
Body / Air conditioning / Air conditioning / Air conditioning display error
Communication/information / Warning and control system / COLLISION PREVENTION ASSIST / Warning message in instrument cluster

Communication/information / Warning and control system / Blind spot assist / Warning message in instrument cluster

Control unit/fault code			
Control unit	Fault code	Fault text	
N3/10 - Motor electro- nics 'MED177V6LA' for combustion engine 'M276 Turbocharger' (ME)	B221402	Control unit "Air conditioning" has a malfunction. There is a gene- ral signal fault.	
N51/3 - AIRMATIC (SPC292)	U015500	Communication with the instrument cluster has a malfunction	
N51/3 - AIRMATIC (SPC292)	U012200	Communication with control unit 'Traction system' has a malfunc- tion	
Y3/8n4 - Transmission con- trol for 7-speed transmission (VGS) (VGSNAG2)	C164	CAN communication with control unit 'Air conditioning' has a mal- function.	
N51/3 - AIRMATIC (SPC292)	U010100	Communication with control unit "Transmission" has a malfunction.	
Y3/8n4 - Transmission con- trol for 9-speed transmission (VGS) (VGSNAG3)	U002800	Communication with the drivetrain CAN bus has a malfunction	
Y3/8n4 - Fully integrated transmission control (VGS) (VGS4NAG2)	U000288	Drive train CAN bus OFF fault Bus OFF	
Y3/8n4 - Fully integrated transmission control (VGS) (VGS4NAG2)	U001988	Interior CAN bus OFF fault	
Y3/8n4 - Transmission con- trol for 9-speed transmission (VGS) (VGSNAG3)	U010000	Communication with the control unit 'combustion engine' has a malfunction	
N3/10 - Motor electro- nics 'MED177V6LA' for	B221412	Control unit "Air conditioning" has a malfunction. There is a short circuit to positive.	

combustion engine 'M276 Turbocharger' (ME)				
N3/10 - Motor electro- nics 'MED177V6LA' for combustion engine 'M276 Turbocharger' (ME)	B221411	Control unit "Air conditioning" has a malfunction. There is a short circuit to ground.		
Y3/8n4 - Transmission con- trol for 7-speed transmission (VGS) (VGSNAG2)	C002	CAN bus OFF fault		
Y3/8n4 - Transmission con- trol for 9-speed transmission (VGS) (VGSNAG3)	U016400	Communication with the air conditioning has a malfunction		
N3/10 - Motor electro- nics 'MED177V6LA' for combustion engine 'M276 Turbocharger' (ME)	B221414	Control unit "Air conditioning" has a malfunction. There is a short circuit to ground or an open circuit.		
Y3/8n4 - Fully integrated transmission control (VGS) (VGS4NAG2)	U150700	Communication with control unit 'Combustion engine' has a mal- function.		
Y3/8n4 - Fully integrated transmission control (VGS) (VGS4NAG2)	U000200	Drive train CAN bus OFF fault _		
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	U010000	Communication with the control unit 'combustion engine' has a malfunction		
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	U015500	Communication with the instrument cluster has a malfunction		
N3/10 - Motor electro- nics 'MED177V6LA' for combustion engine 'M276 Turbocharger' (ME)	B221400	Control unit "Air conditioning" has a malfunction		
N3/10 - Motor electro- nics 'MED177V6LA' for combustion engine 'M276 Turbocharger' (ME)	B221401	Control unit "Air conditioning" has a malfunction. There is a gene- ral electrical fault.		
Y3/8n4 - Transmission con- trol for 7-speed transmission (VGS) (VGSNAG2)	C001	CAN bus OFF fault		
Y3/8n4 - Fully integrated transmission control (VGS) (VGS4NAG2)	U016400	Communication with the air conditioning has a malfunction		
Y3/8n4 - Transmission con- trol for 9-speed transmission (VGS) (VGSNAG3)	U000100	Drive train CAN communication has a malfunction		
N51/3 - AIRMATIC (SPC292)	U010000	Communication with the control unit 'combustion engine' has a malfunction		
N51/3 - AIRMATIC (SPC292)	U003788	Communication with the chassis CAN bus has a malfunction. Bus OFF		

Parts

# XENTRY TIPS

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 005 997 62 90			Cable strap	1		X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			59200 22	K/Z*, fan control unit

WIS-References				
Document number	Title	Note	Allocation	
AR00.19-P-0100A	Wiring harness general re- pair methods		Remedy	