

Contact corrosion on connector 20M at front SAM

Topic number	LI54.21-P-059249
Version	2
Design group	54.21 Control modules/modules
Date	07-01-2014
Validity	MODEL 172 up to production date 04/2014
Reason for change	updated part number for Pins for housing (connector S41)
Reason for block	

Complaint:

Coolant can cause contact corrosion on connector "20M" of the Front SAM.

Cause:

Coolant can travel via leaking sensor pins at the expansion reservoir to the connector "M20" of the Front SAM and cause contact corrosion.

Remedy:

The following components should be replaced:

1. Front SAM
2. Front SAM connector M20 and pins
3. Expansion Reservoir
4. Connector and pins for Coolant Level Switch S41 at Expansion Reservoir

Note: AR00.19-P-0100A "General wiring harness repair methods" must be followed.

Symptoms
Overall vehicle / Cleaning system / Windscreen wiper / Malfunction
Overall vehicle / Lighting / Exterior lights / Driving lights / Low beams / Low beam function / Constantly on (light)

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 212 900 73 24			Control unit (SAM)	1		X	
A 052 545 62 26			Housing (connector 20M)	1		X	
A 008 545 55 26			Pins for housing (connector 20M)	18	Only the damaged pins need to be replaced	X	
A 172 500 02 49			Expansion reservoir	1		X	

A 022 545 27 26			Housing (connector S41)	1		X	
A 001 545 59 80			Blind plug for housing (connector S41)	2		X	
A 000 545 71 80			Single-wire seal for housing (connector S41)	2		X	
A 015 545 23 26			Pins for housing (connector S41)	2		X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
			50105 04	
54-0650	BATTERY CHARGER / MAINTAIN VOLTAGE			
54-1011	SHORT TEST			
54-7989	DISCONNECT GROUND FOR REPAIRS			
54-9201	REPLACE ELECTRICAL CONNECTOR AND PINS			
54-2461	FRONT SAM REPLACE			
54-0992	SOFTWARE FLASH			
54-0991	CODE			
20-5410	COOLANT RESERVOIR REPLACE			

Validity		
Vehicle	Engine	Transmission
SLK (172)	*	*