

Light switch/combination switch, fault code stored

Topic number	LI54.25-P-068219
Version	1
Function group	54.25 Switches
Date	06-11-2018
Validity	smart 453
Reason for change	
Reason for block	

Complaint:

Low beams (driving lights) are permanently on,
high beams cannot be switched on, lights cannot be switched off.
Proper functioning is restored after an ignition cycle.

Cause:

Even if complaints of the light switch are not noticeable or barely noticeable to the customer, a fault code is set ("B127094 - The component 'S4 (combination switch)' has a malfunction") and the control unit switches to "safety mode": The low beams (driving lights) remain permanently on.

Remedy:

Erase stored fault code.

If the code or the customer complaint reoccurs, the light switch must be replaced.

Since 1/20/18, modified light switches have been produced (the manufacturing date can be seen on the label on the switch). The part numbers have not been changed.

When replacing, it is absolutely essential to proceed according to the new WIS instructions AR54.25-P-2809SR and to always comply with the tightening specification for the two mounting screws (torque and tightening angle, with a suitable torque wrench, e.g. W 001 589 81 21 00).

Attachments	
File	Description
Kombischalter links aus-, einbauen.pdf	AR54.25-P-2809SR German
install left combination switch.pdf	AR54.25-P-2809SR

Symptoms
Lighting / Exterior lights / Driving lights / High beams / Function / Malfunction

Control unit/fault code		
Control unit	Fault code	Fault text
N10/11 - Signal acquisition and actuation module (Driver-side SAM) (EMM453)	B127094	Component 'S4 (Combination switch)' has a malfunction.

XENTRY TIPS

Parts

Attachments

File	Description
Label.jpg	Label with production date, old

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
54-2807	Replace left combination switch		46251 73	

WIS-References

Document number	Title	Note	Allocation
AR54.25-P-2809SR	Remove/install left combination switch	Always observe the tightening specification for the two mounting screws.	Remedy

Attachments

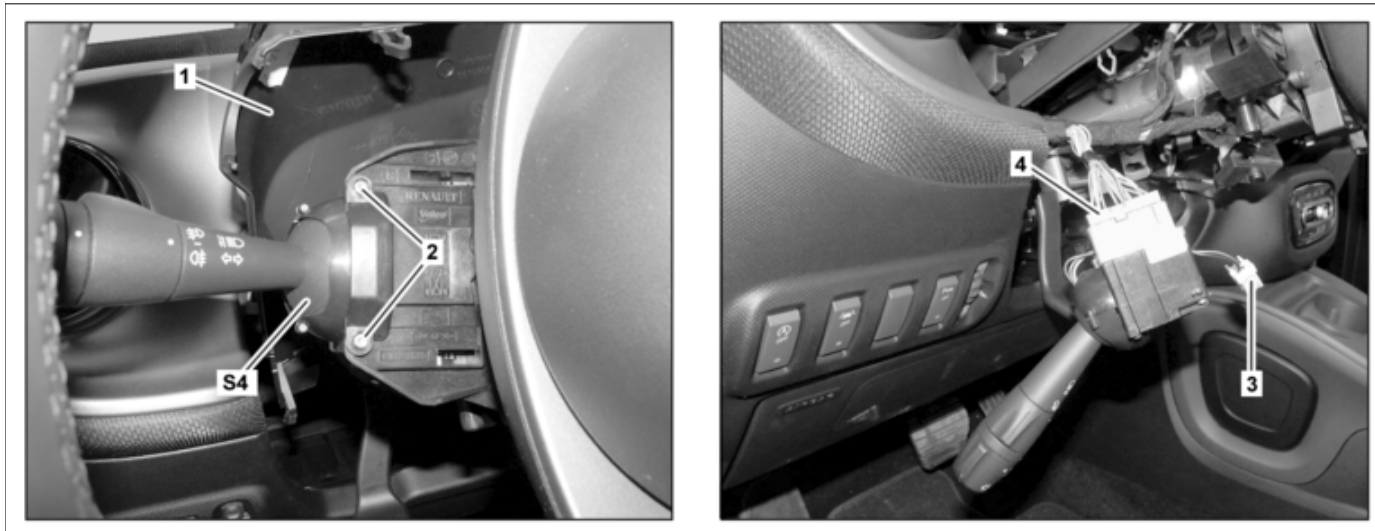
Label.jpg:



Model 453

Modification notes

04.05.2018	Tightening torque and special tool, added.	Step 6	
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P54.26-1366-08

1 Upper steering column cover
2 Bolts

3 Electrical connector
4 Electrical connector

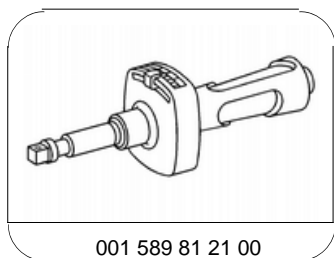
S4 Combination switch

	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
	Remove		
1	Remove lower steering column trim.		AR68.30-P-2000SR
2	Turn steering wheel until the screws (2) are accessible.		
3	Lift upper steering column trim (1) and remove screws (2).		
4	Expose and disconnect electrical connector (3).		
5	Disconnect electrical connector (4) and remove combination switch (S4).		
	Install		
6	Lift upper steering column trim (1), position the combination switch (S4) and tighten with screws (2).	Screw, combination switch to steering column tube module Torque screwdriver	*BA54.25-P-1001-01A *001589812100
7	Connect electrical connector (4).		
8	Connect electrical connector (3) and fix in place.		
	Check		
9	Check all functions of combination switch (S4).	Ensure in particular the proper manual operation of one-touch turn signaling (short flashing) and the high beam reset. Switch off the exterior lighting when the exterior lighting is on and the "high beam" position is activated; the combination switch (S4) must go back to the "low beam" position independently. In the case of a complaint,	

		↓ Release screws (2) gradually in steps and check the manual reset functions again.	
	Install		
10	Position upper steering column trim (1) and install lower steering column trim.		AR68.30-P-2000SR

 Switches

Number	Designation			Model 453
BA54.25-P-1001-01A	Screw, combination switch to steering column tube module	Stage 1	Nm	0,75
		Stage 2	Δ°	180



Torque screwdriver