

Complaint - Surround View Camera Fogged Up or Does Not Function: Observe Specified Procedure (157/19)

Model line: **Cayenne (9YA)**
Cayenne Coupé (9YB)

Model Year: **As of 2018**

Equipment: **4-camera system Surround View (I-no. KA6)**

Subject: **Central control unit for assistance systems**

Information: The Surround View camera does not function sporadically or permanently and/or one of the Surround View cameras is fogged up.

One or several of the following fault memory entries are stored:

- B127C04 - Front camera defective
- and/or**
- B127D04 - Reversing camera defective
- and/or**
- B127E04 - side (left) camera defective
- and/or**
- B127F04 - side (right) camera defective
- and/or**
- B200FFA - Surround view camera – internal fault

Remedial Action: For existing fault memory entries relating to one or more Surround View cameras, first check the Surround View camera (s) for function as described.

Replacing the control unit for assistance systems in response to the fault memory entry "B200FFA -Surround view camera – internal fault" in conjunction with the data error code 0x045018 will **not** correct the problem.

- Procedure for an existing fault memory entry for a surround view camera ⇒ *Technical Information 'A single fault memory entry for a single surround view camera is stored (there are no other fault memory entries). '*
- Procedure for several existing fault memory entries for various Surround View cameras ⇒ *Technical Information 'Several fault memory entries for various cameras are stored. '*
- Procedure for fault screen "Surround View camera is fogged up, shows a milky or blurred image" ⇒ *Technical Information 'A single Surround View camera is fogged up, showing a milky or blurry image'.*

Required tools and spare parts

- Tools:
- **9900 - PIWIS Tester 3** with installed PIWIS Tester software **version 38.500.000** (or higher)
 - **Battery charger** with a current rating of **at least 90 A**, e.g. **Battery charger 90A**.

Spare Parts:

**Information**

The relevant spare part is only required if damaged/defective.

Part No.	Designation	Qty.
	- Location	
95898054601	⇒ Camera with Real Top View adapter	1 ea.
9Y3827709A	⇒ Seal	1 ea.
95898054600	⇒ Camera (Real Top View)	1 ea.
	Exterior mirror, left	
	Exterior mirror, right	
	Rear Surround View camera	
9Y3827709A	⇒ Seal	1 ea.

A single fault memory entry for a single surround view camera is stored (no other fault memory entries are stored)

- Work Procedure: 1 Establish bus idle so that a reset of the control unit for assistance systems is carried out. Lock the vehicle and wait 5 minutes for this purpose.
- 2 Connect a battery charger with a current rating of **at least 90 A**, e.g. **Battery charger 90A**, to the jump-start terminals in the engine compartment and switch it on, see ⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*.
- 3 Connect the **PIWIS Tester** to the vehicle and switch it on. - Read out the fault memory.
- 4 If the fault memory entries are still present, check data lines and connection points between the control unit for assistance systems and all Surround View cameras for loose/non-engaged connectors, loose/pushed-back pins, corrosion and damage.
- If no cause can be determined, the following measures are required for narrowing down the cause:
- Cross install a single Surround View camera to locate a defective camera.
 - Swap the video cable on the control unit for assistance systems to locate a defective video cable.



Information

During the checks, make sure that bus idle is maintained in order to perform a reset of the control unit for assistance systems.

Replacing the control unit for assistance systems should not be carried out in the absence of a clear diagnosis.

Several fault memory entries for various cameras are stored

Work
Procedure:



Information

Due to deviations in the diagnostic capability of the control unit for assistance systems, a single Surround View camera (e.g. defective Surround View camera, short circuit in the video cable, water ingress, etc.) can cause partial or even complete failure of the Surround View camera system.

Proceed as in section ⇒ *Technical Information '270689 A single fault memory entry for a single Surround View camera is stored (no other fault memory entries are stored)*, 'to identify the cause of the problem.

Replacing the control unit for assistance systems should not be carried out in the absence of a clear diagnosis.

A single surround view camera is fogged up and displays a milky or blurred image

Work
Procedure:



Information

Due to deviations in the diagnostic capability of the control unit for assistance systems, a single Surround View camera (e.g. defective Surround View camera, short circuit in the video cable, water ingress, etc.) can cause partial or even complete failure of the Surround View camera system.

Replace the fogged-up surround view camera, make meaningful pictures and attach them to the warranty claim.

If water ingress is identified during the test, the affected camera must be replaced. In addition, the relevant video cable must be checked for water damage and replaced if necessary.

⇒ *Workshop Manual '916919 Removing and installing front camera'*

⇒ *Workshop Manual '916719 Removing and installing side camera'*

⇒ *Workshop Manual '914319 Removing and installing reversing camera'*

Replacing the control unit for assistance systems should not be carried out in the absence of a clear diagnosis.

Invoicing

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
91690110	Check rear camera	
91670111	Check left camera	
91670112	Check right camera	
91670210	Swap left/right camera	
91722550	Program Surround View camera control unit (when replacing front camera and/or left/right camera)	
91430110	Check reversing camera (9YA)	
91430115	Check reversing camera (9YB)	
91432553	Program reversing camera (when replacing reversing camera)	
91020110	Check central control unit for assistance systems (swap video cable)	

PQIS coding:

Location (FES5)	91020	Central control unit for assistance systems
Damage type (SA4)	1612	Does not function in some cases

Parts Info:

**Information**

The relevant spare part is only required if damaged/defective.

Part No.	Designation	Qty.
	- Location	
95898054601	⇒ Camera with Real Top View adapter	1 ea.
9Y3827709A	⇒ Seal	1 ea.
95898054600	⇒ Camera (Real Top View)	1 ea.
	Exterior mirror, left	
	Exterior mirror, right	
	Rear Surround View camera	
9Y3827709A	⇒ Seal	1 ea.

- References:
- ⇒ *Workshop Manual '916919 Removing and installing front camera'*
 - ⇒ *Workshop Manual '916719 Removing and installing side camera'*
 - ⇒ *Workshop Manual '914319 Removing and installing reversing camera'*
 - ⇒ *Workshop Manual '910219 Removing and installing central control unit for assistance systems'*

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