

Surround View Camera Intermittent Operation

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Taycan	As of 2020 up to 2024	Y1A, Y1B, Y1C	N/A	KA6

Revision History

Revision	Release Date	Changes
0	March 22, 2024	Original document
1	April 1, 2024	Update of Warranty Information
2	September 3, 2024	Update of PartID, Service Information (Second visit)

Condition

The customer complains of intermittent operation for one or multiple surround view cameras that appear blank with a crossed-out camera icon for each failed camera.

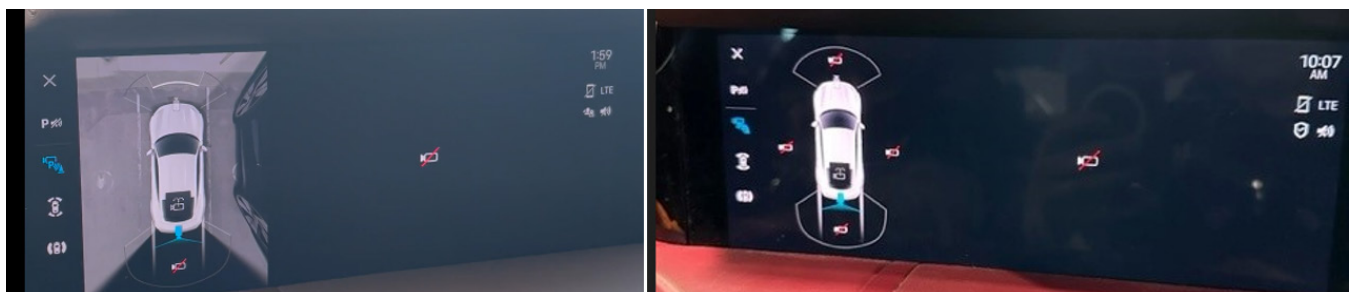


Figure 1- Failure Modes

Technical Background

Any component failure of the surround view system can lead to a single or a combination of surround camera images showing a blank screen within the PCM display.

Advanced Technical Information

The following fault codes may be present:

- **B200FFA – Surround View camera – internal fault**
- **B127*04 – X camera faulty**
- **B127*54 – X camera, calibration**
- **C12**02 – X peripheral camera, video wiring, Signal error**

Service Information

The countermeasure at this time is to be treated on a two-visit basis. Repairs made must be accompanied by supporting diagnostic work with objective evidence of the issue, e.g., pictures or videos. Refer to the steps below for instructions.

First visit for this concern:

1. Create a Pre-VAL.
2. Verify the concern is isolated to the surround view system.
3. Replace the components listed below:
 - a. All four surround cameras
 - b. Front & rear bumper harnesses
 - c. Both front door harnesses (containing coax cable)
 - d. Both side-view mirror harnesses
4. Create a Post-VAL.

Second visit for this concern (This can only be carried out after verifying the first visit repair has been completed):

1. Create a Pre-VAL.
2. Verify the concern is isolated to the surround view system & ensure the previous repair has been performed correctly.
3. Perform the next repair:
 - a. Replace zFAS control unit.
 - b. Overlay new coax cables from ZFAS control unit to: (Part Numbers are from VW/Audi)
 - Front bumper harness (Figure 3)
 - zFAS connector housing: **4L0_035_576**
 - Bumper connector housing: **Refer to Campaign WNK7**
 - Rear bumper cable connection (Figure 4)
 - zFAS connector housing: **4L0_035_576_B**
 - Bumper connector housing: **Refer to Campaign WNK7**
 - Both door harnesses (use 2x Porsche PN: **9Y1_971_327_B** & exchange connector housings)
 - zFAS connector housing (driver side): **4L0_035_576_D**
 - zFAS connector housing (passenger side): **4L0_035_576_C**

Recommended to remove doors for access to A-pillar connectors.

Recommended using **VAS 6720 & Wire Insertion Tool Set** (e.g. Snap-On - WINS1000R).



Figure 2 - Snap-On - WINS1000R

IMPORTANT: Ensure no material is removed from any grommet when piercing and do **NOT** drill any holes. Avoid damaging wires by pointing insertion tool **AWAY** from wires while penetrating.

4. Verify operation of the surround view system after the repair has been completed.
5. Create a Post-VAL.



Figure 3 - Front Camera Connection Point
(Front Driver Wheel Well)



Figure 4 - Rear Camera Connection Point
(Rear Driver Wheel Well)



Figure 5 - Door Harness Connection Point



Figure 6 - Door Harness Connector

Advanced Technical Information

Additional Information for coax cable overlays:

1. Side camera overlays
 - a. It is recommended to remove the door and grommet underneath the connector in Figure 7 to begin removal for overlay. To remove the connector from the cavity in Figure 8, it is also recommended by moving the foam piece circled in Figure 9 to create space for the connector to pass through.
 - b. In case of limited space to move the foam piece, The bracket holding BCM1 may be loosened and fastened picture in Figures 10 & 11. This can include removing the BCM1 and OTA-FC for access.
2. Front camera overlay
 - a. It is recommended the overlay follows the same wiring harness pathing from the wheel well, up near the frunk, to the firewall grommet.
 - b. The point of entry designation is indicated by the green arrow in Figures 12 & 13. When using the insertion tool, aim away from the wiring harness to prevent any damage to any wires. Additionally, the pierced point should be aimed below the bracket of BCM1. It is important to not remove any material from the grommet when piercing.
 - c. After installing the cable, ensure the pierced point is properly sealed and watertight.
3. Overlay paths
 - a. When overlays are laid in, be sure to fasten the cables to the pre-existing harnesses in the vehicle to prevent any damage.
 - b. Recommended paths for the front and driver side camera overlays to the zFAS control unit should follow the green line in Figure 14, while the rear camera overlay should follow the red line in Figure 14.



Figure 7 -
Body Side Door Harness Connector



Figure 8 -
Door Jam Internal Cavity



Figure 9 -
Entry Point into Cavity (Foam
Piece Circled)



Figure 10 -
Front-End Body Control Unit



Figure 11 -
Over-The-Air Function Controller



Figure 12 -
Firewall Entry Point for Overlay
(Under Wiper Motor)



Figure 13 -
Firewall Exit Point for Overlay
(Between BMC1 & OTA-FC Below Bracket)



Figure 14 -
Overlay Cable Pathing (Red - Rear Camera / Green - Driver Side & Front Camera)

Warranty

For documentation and warranty invoicing, enter the working position and PCSS encryption specified below in the warranty claim:

1st Workshop Visit:

APOS	Labor operation	I No.
03350050	On board diagnostics	
03350053	On board diagnostics (Pre-VAL)	
91691900	Front camera remove and reinstall	
91671901	Side camera remove and reinstall (left)	
91671902	Side camera remove and reinstall (right)	
91435500	Reversing camera control unit replace	
97151900	Wire harness front remove and reinstall	
66791905	Rear-view mirror housing remove and reinstall (left)	
66791906	Rear-view mirror housing remove and reinstall (right)	
97321901	Door wire harness remove and reinstall (left)	
97321902	Door wire harness remove and reinstall (right)	
64451099*	Front window guides loosen and fasten (both)	
97251900	Rear wire harness remove and reinstall	
03350063	On board diagnostics (Post-VAL)	

*** 80 TU may be claimed for 64451099.**

2nd Workshop Visit:

APOS	Labor operation	I No.
03350050	On board diagnostics	
03350053	On board diagnostics (Pre-VAL)	
97090906	Main wire harness loosen and fasten (rear luggage compartment)	
70411901	Front floor covering remove and reinstall (left)	
70410999**	Front floor covering loosen and fasten (right)	

APOS	Labor operation	I No.
91981900	Over-the-air control unit remove and reinstall	
97840903	Fuse box loosen and fasten (left footwell)	
97840904	Fuse box loosen and fasten (right footwell)	
68151900	Glove compartment remove and reinstall	
94491900	Front-end electronics control unit remove and reinstall	
57511901	Door remove and reinstall (left)	
57511902	Door remove and reinstall (right)	
97091999***	Create and overlay new coaxial cables from zFAS control unit to surround cameras	
91025500	Assistance systems central control unit replace	
03350063	On board diagnostics (Post-VAL)	

**** 50 TU may be claimed for 70410999.**

***** Only actual time elapsed up to a maximum of 600 TU, verified by a separate identifiable time punch, may be claimed for 97091999.**

PCSS encryption:

Location (FES5)	91020	Assistance Systems
Damage type (SA4)	1613	No function occasionally

Search Items

J1, Taycan, RTV, surround camera, camera, reverse

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