

**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

**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.

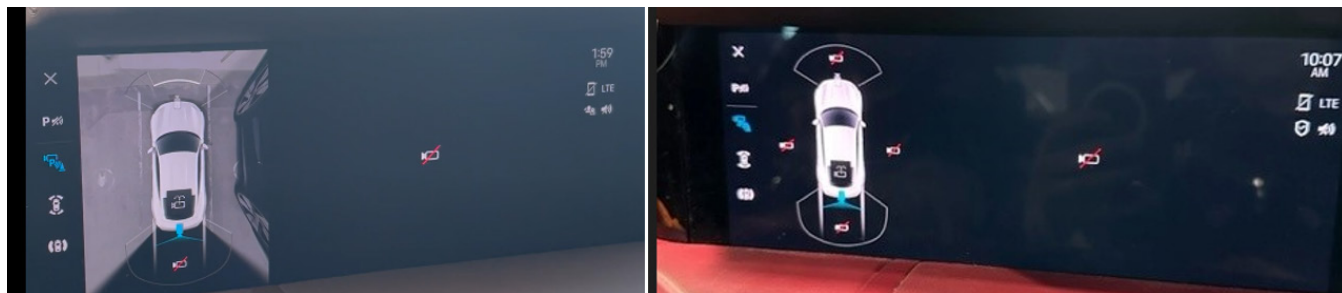


Figure 1- Failure Modes

**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.

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: **420\_035\_575\_B**
    - Rear bumper cable connection (Figure 5)
      - zFAS connector housing: **4L0\_035\_576\_B**
      - Bumper connector housing: **4L0\_035\_576\_D**
    - 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

**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)

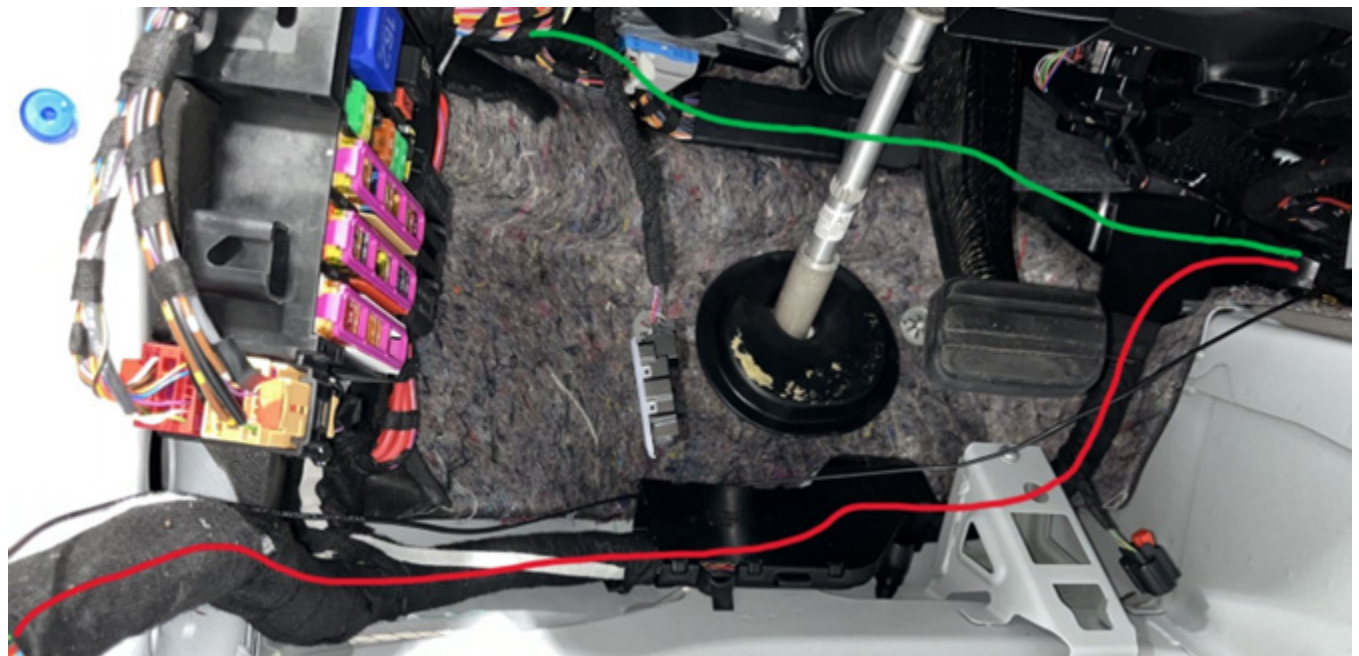


Figure 14 -  
Overlay Cable Pathing (Red - Rear Camera / Green - Driver Side & Front Camera)

**Warranty**

As always, please document the repair completely in PCSS.

For this repair, please code the "cause" as follows:

Cause location: 91020 Assistance Systems  
 Cause symptom: 1613 No function occasionally

Use the following labor operations for each workshop visit:

1<sup>st</sup> Workshop Visit:

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)
64451999**	Front window guides loosen and fasten (both)
97251900	Rear wire harness remove and reinstall

2<sup>nd</sup> Workshop Visit:

97090906	Main wire harness loosen and fasten (rear luggage compartment)
70411901	Front floor covering remove and reinstall (left)
70411999**	Front floor covering loosen and fasten (right)
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
91981999*	Over-the-air control unit loosen and fasten
94491999***	Front-end electronics control unit loosen and fasten
57511901	Door remove and reinstall (left)
57511902	Door remove and reinstall (right)
97091999****	Create and overlay new coaxial cables from zFAS control unit to front & rear surround cameras
91025500	Assistance systems central control unit replace

Please see footnotes on the following page.



- \* **25 TU may be claimed for 91981999.**
- \*\* **80 TU may be claimed for 64451999.**
- \*\*\* **50 TU may be claimed for 70411999 & 94491999.**
- \*\*\*\* **Only actual time elapsed up to a maximum of 600 TU, verified by a separate identifiable time punch, may be claimed for 97091999.**

### Search Items

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

**Important Notice:** Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.