

## Document Information

**Location:** Electrical / Electrical Systems

**Topic:** Surround view camera system (SVC/SVS) diagnosis guide

**Condition:** Permanent

**Diagnostic Trouble Codes:** B127901, B127A01, B127B01, B127C01, B127DF0, B127EF0, B127FF0, B128FF0, B201000

## Measure










Currently, there are two available camera systems for use in a McLaren Artura and 750s.

- Technology Pack - SVC/SVS

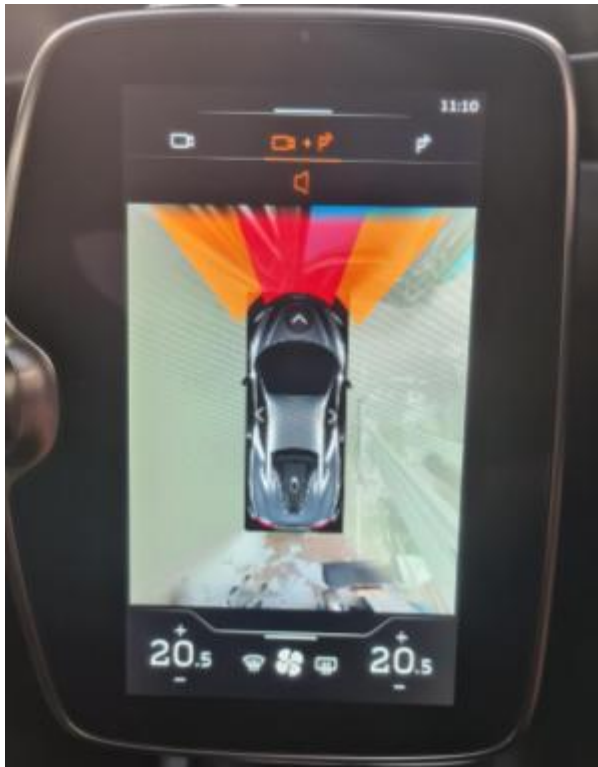
- Practicality Pack - RVC

If you receive a vehicle with a customer concern relating to the surround view camera system, this Knowledge Article will aid in the diagnosis of the system.

In this Artura example, although all cameras show an error message, the left surround view camera should be investigated as a priority.

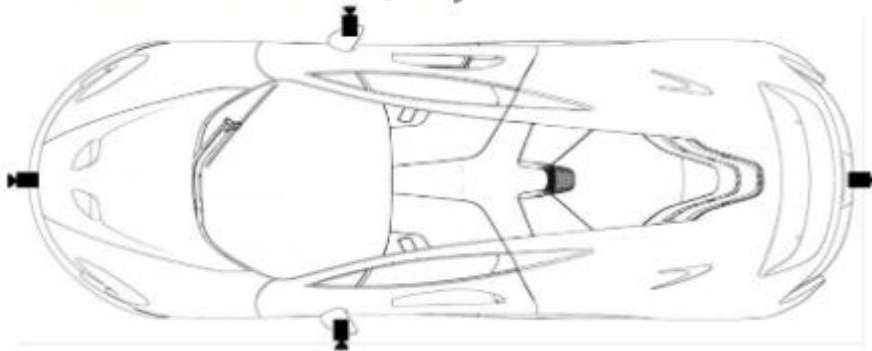
 SVS		Active: 1 Inactive: 3	
Code	Description	Status	
B127901	Video link to FV camera - Connection Error		
B127A01	Video link to RV camera - Connection Error		
B127B01	Video link to SV left camera - Connection Error		
B127C01	Video link to SV right camera - Connection Error		

The below image shows the centre display during this scenario. PDC remains active despite the loss of the left camera, this is displayed as a blurred image.



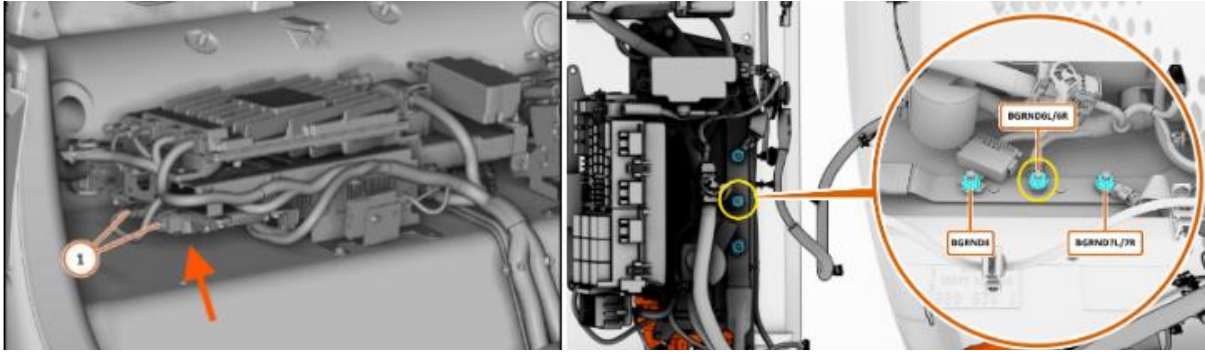
In order to identify the reason for image loss, the left camera circuit will need to be interrogated.

**Cameras Location on Vehicle (SVC)**



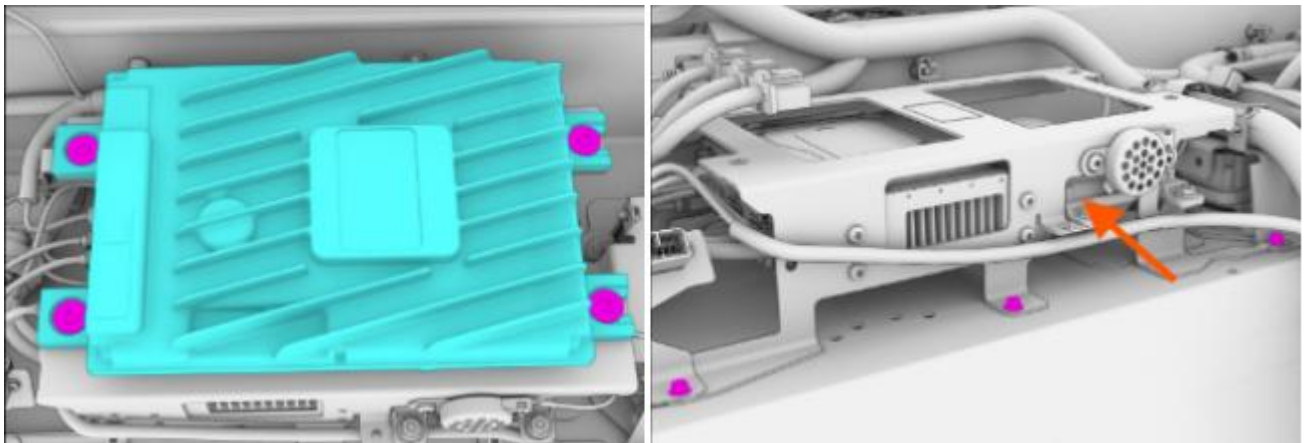
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Located within electric city, the SVC/SVS module can be found beneath the Amplifier and the module ground BGRND6L/6R behind the fuse box.

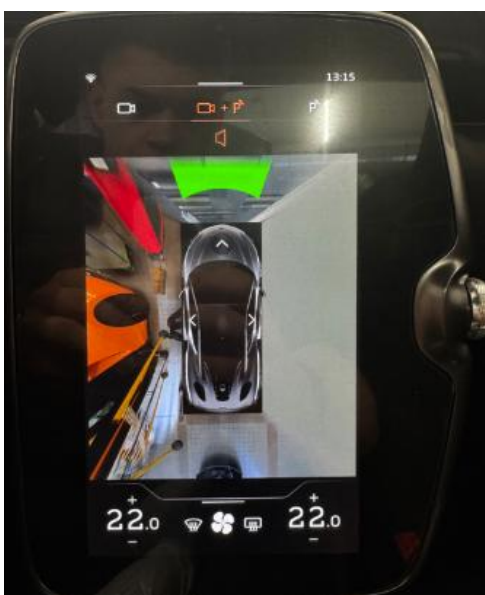


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Located within electric city, the SVC/SVS module can also be found beneath the Amplifier.

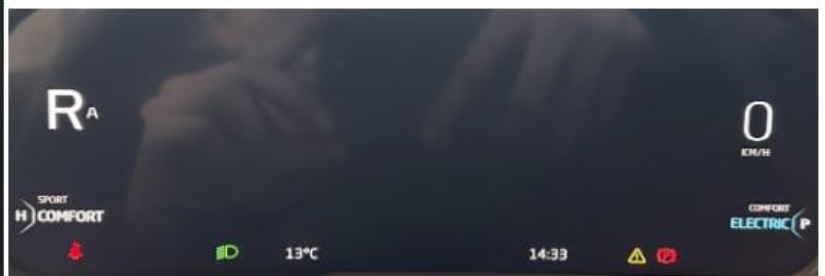


If the right hand surround view camera circuit were to fail, the centre display would appear as below.



If the SVC/SVS module were to completely fail, stored DTC's may include the following and the centre display and IC would appear as below.

<div>  <b>SVC - Surround View Camera</b> </div>		Active: 5 Inactive: 0 ...	
Code	Beschreibung	Status	
B127DF0-29	<input type="radio"/> FV camera calibration failed	Active	
B127EF0-29	<input type="radio"/> RV camera calibration failed	Active	
B127FF0-29	<input type="radio"/> SV camera right calibration failed	Active	
B128FF0-29	<input type="radio"/> SV camera left calibration failed	Active	
B201000-29	<input type="radio"/> System not calibrated	Active	

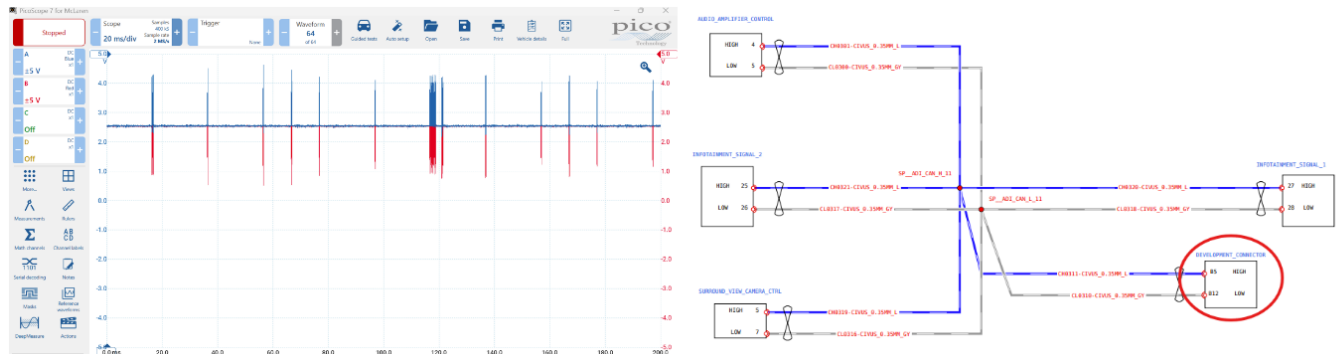


**Care Point:** In all scenarios, a thorough system and circuit investigation is still required, in order to confirm diagnosis and justify a potential warranty claim.

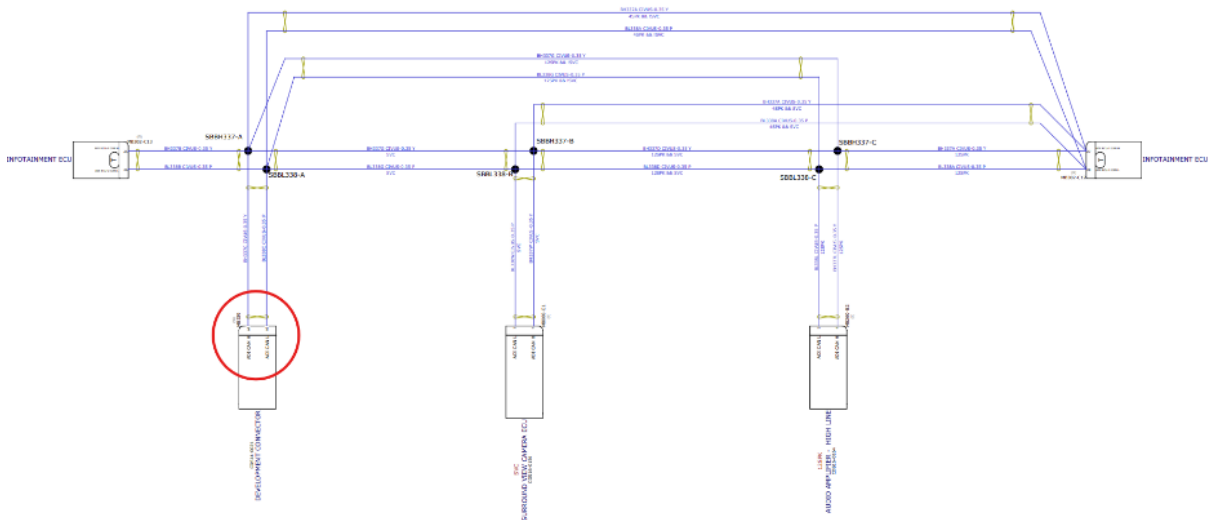
The below image displays a healthy ADI CAN. This can be measured directly at the development connector using PicoScope at pins B5 CAN HIGH, B12 CAN LOW (P16) A3 CAN LOW, A4 CAN HIGH (P28) utilising a chassis ground.

**Care Point:** From MY25, some vehicles may not have a development connector present, therefore the measurement will need to be taken where most appropriate for your vehicle.

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Following any SVC/SVS/RVC component replacement, it is necessary to carry out a full system calibration and functional test.

- P16 HA-RM-09M021-06-005 - Calibrate Surround View Cameras (SVC/SVS)
- P16 HA-RM-09M021-06-006 - Calibrate Rear View Camera (RVC)
- P28 DE-RM-07M021-06-005 - 750S Calibrate Surround View Cameras (SVC)

## Parts Information

N/A

## Attachments

P16 SVC/RVC wiring schematics

P28 SVC wiring schematics