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Case Number: S248A000009

Release Date: May 2024

Symptom/Vehicle Issue: Front Camera Inoperative or Flickering Complaints, Radio Display Blue Or Blank When Front View Selected

Customer Complaint/Technician Observation: Front camera view is not functioning in vehicles equipped with surround view system (XAK). After replacing the front camera, the system may function properly and result in a camera warranty return. The returned cameras are analyzed and determined to be functioning correctly. Please review tips in Front View Camera diagnostics.

Diagnosis:

Follow the diagnostic instructions for the following DTCs:

- B23C5-92 - FRONT CAMERA-PERFORMANCE OR INCORRECT OPERATION
- U0265-00 - LOST COMMUNICATION WITH FRONT CAMERA

Inspect the coaxial cable (circuit J222) for:

- Loose or damaged connector/cable at the D2953A camera connector or XY120A front fascia inline connector.
- Damage to the coaxial cable sheath or inoperative coaxial cable.

Using the test cable '9977-6-8 - Adapter, RG-174 Coax Cable':

- Connect the front camera directly to the Central Vision Processing Module (CVPM) at the front camera port to help eliminate the possibility of a faulty coaxial cable.
- Verify the CVPM operation by connecting a known good camera to the front camera port.
- Verify the test cable operation by connecting it to a known good camera on a different port.
- Verify the dash harness coaxial cable by connecting the test cable between the CVPM and XY120A.

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- Verify the front fascia harness coaxial cable by connecting the test cable between the inline connector XY120A and the camera connector D2953A.

Note: The test cable can be used to swap camera ports on the CVPM.

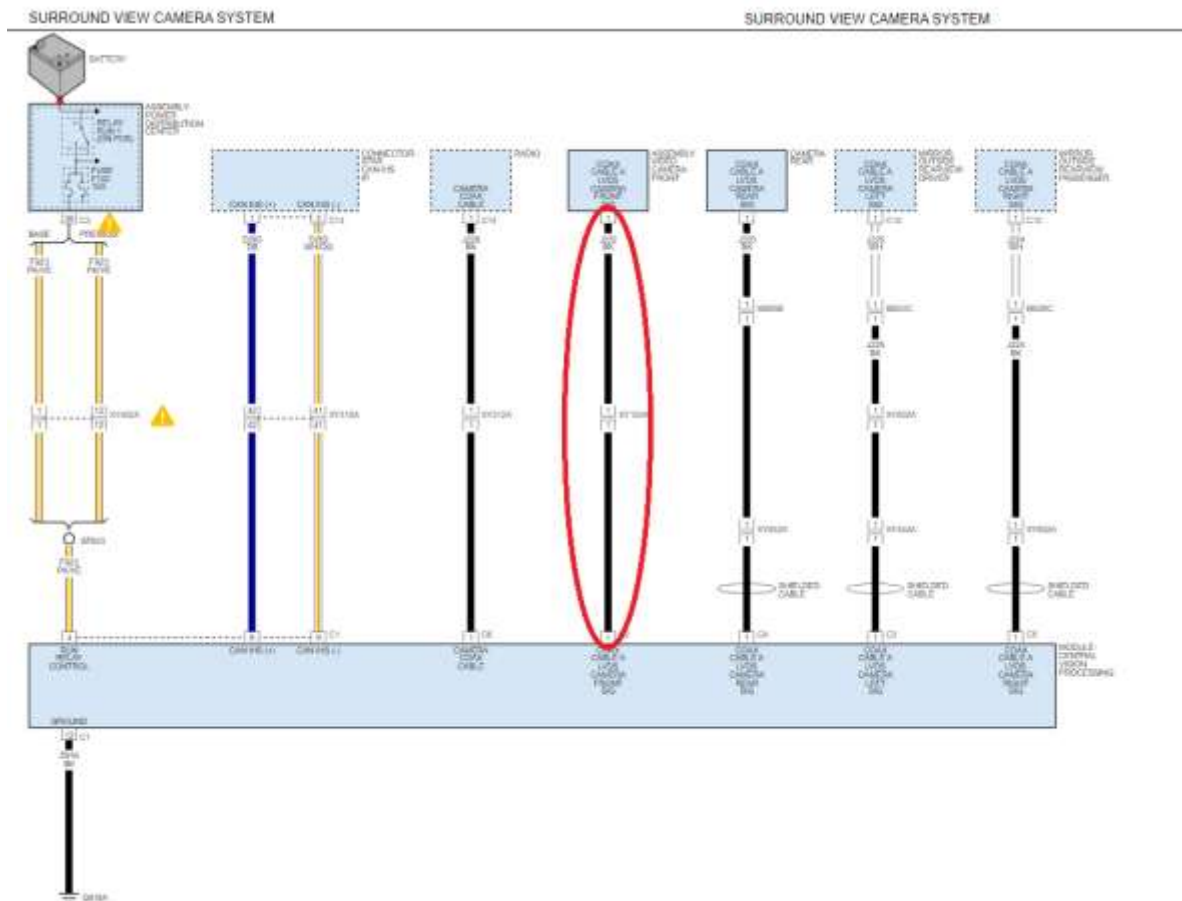


Fig 1

Checking electrical continuity or resistance with a multimeter does not provide a comprehensive assessment of the coaxial cable's signal performance as they are not sensitive enough to detect small variations in resistance along the cable and its connections. The system must have minimal signal attenuation for proper operation in high-speed applications. See "Sending Power Over Coax

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FPD-Link Designs” by Texas Instruments for details on the operation of Power Over Coax (PoC) used in digital camera systems for more details.

Repair Procedure: If coaxial cable or connector damage is observed, replace the harness containing the damaged cable. An example of coaxial cable sheath damage is provided below.



Fig 2

If harness or connector damage is not observed, secure D2953A and XY120A using the push/pull/push method. If the issue persists and the camera is confirmed functional using the ‘9977-6-8 - Adapter, RG-174 Coax Cable’, replace the harness causing the inoperative condition.

If the camera is found to be inoperative when connected directly to the CVPM with the test cable, replace the camera.

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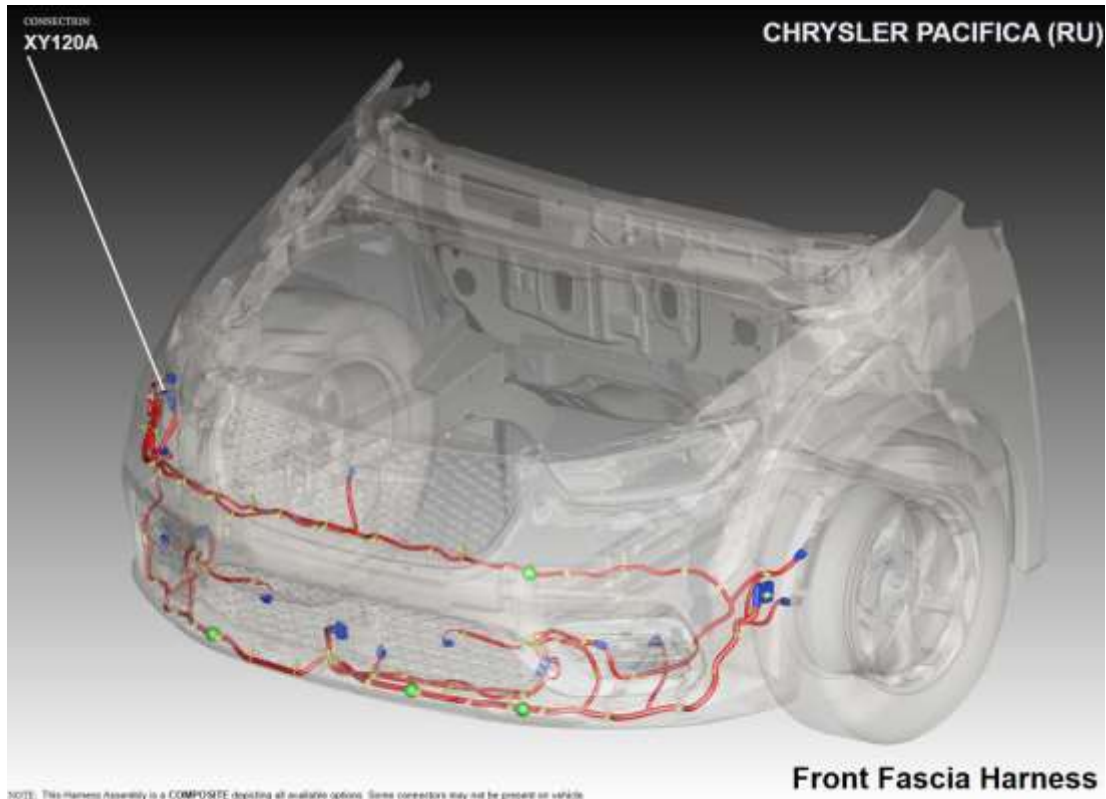


Fig3

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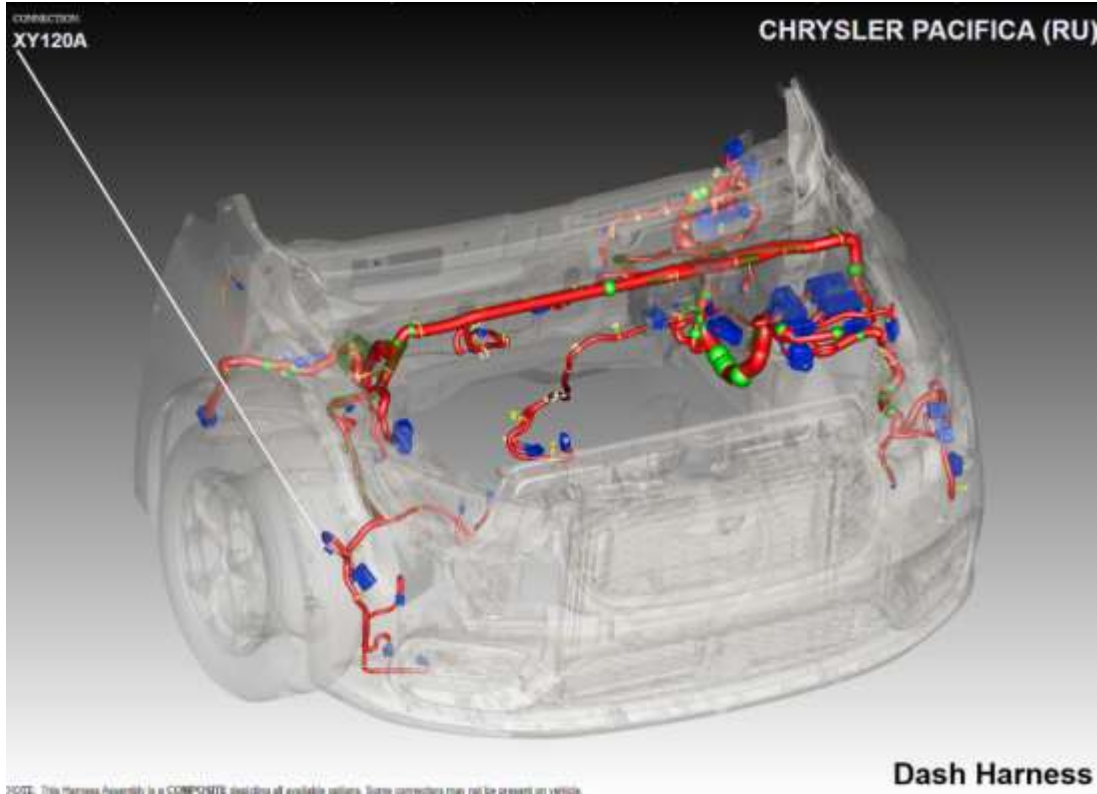


Fig 4

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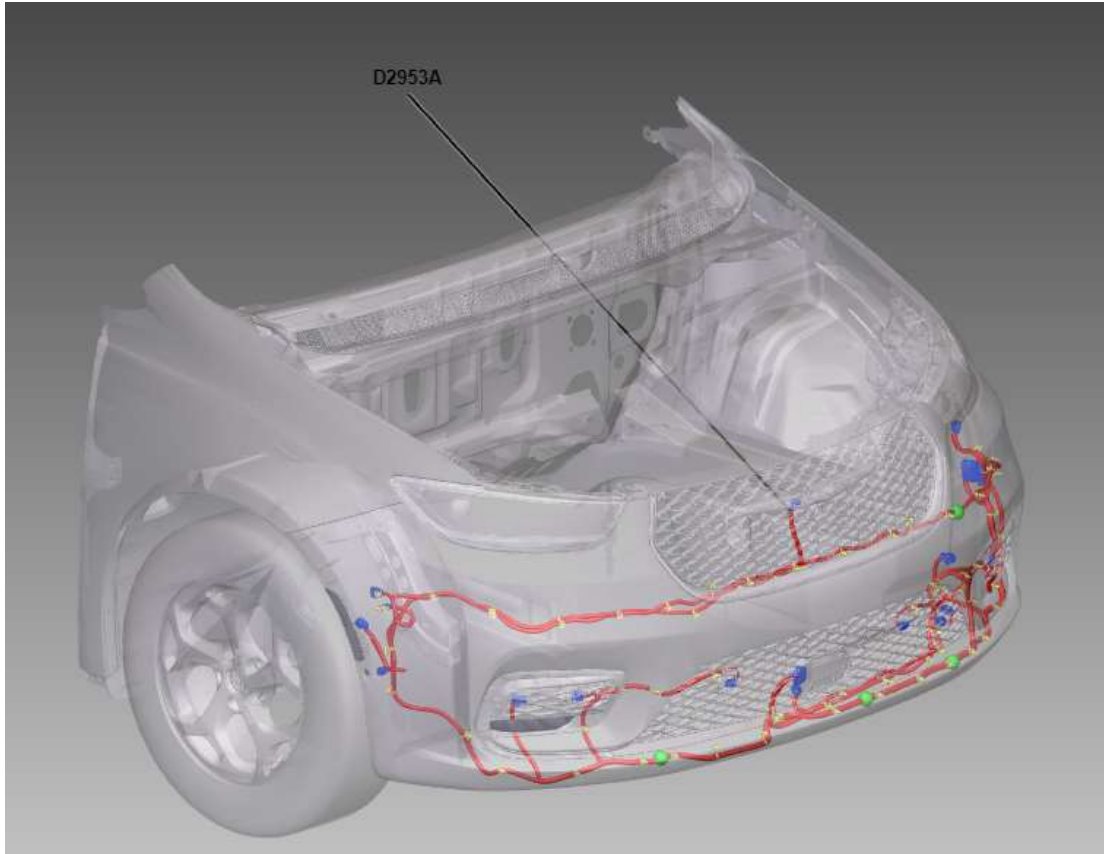


Fig 5

Verification: Front camera view operates as designed and DTCs do not return.

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