

Various White Messages Regarding Driver Assistance Systems In the Instrument Cluster/Fault Memory Entry "C12D5FA" In the Control Unit for Driver Assistance Systems - ZFAS (75/25)

Model Line: **Taycan (Y1A/Y1B/Y1C)**

Model Year: **As of 2020**

Equipment: Reversing camera system (**M-No. KA2**)
or
Real Top View (4-camera system) (**M-No. KA6**)

Concerns: **Control unit for driver assistance systems (ZFAS)**

Cause: **The customer complains about the failure of various driver assistance systems and corresponding notes (white warning message) in the instrument cluster, for example:**

- Assistance Systems currently reduced
- Lane Keep Assist currently not available
- Active Lane Keeping currently not available
- Speed limit display not available
- Proactive occupant protection currently reduced
- Warn and Brake Assist reduced
- Driving light control faulty
- Emergency Stop Function currently not available

After a change in readiness for operation, all systems are available again and the warning messages no longer occur.

The following fault memory entry is stored in the fault memory of the control unit for driver assistance systems (ZFAS):

- **C12D5FA** - Control unit for driver assistance systems, image processing processor does not react

Cause: If the fault memory entry is **passive**, there is a possibility that electromagnetic incompatibility/influences on the video line may lead to the above-mentioned complaints.

If the fault memory entry is **active**, there is a possibility that the electrical contact of the image processing processor is faulty and leading to the above-mentioned complaints.

Action: If there is a customer complaint, check whether the fault memory entry "C12D5FA" is stored actively or passively in the control unit for driver assistance systems (ZFAS) and, depending on the result, either install a new video line or replace the control unit for driver assistance systems (ZFAS).

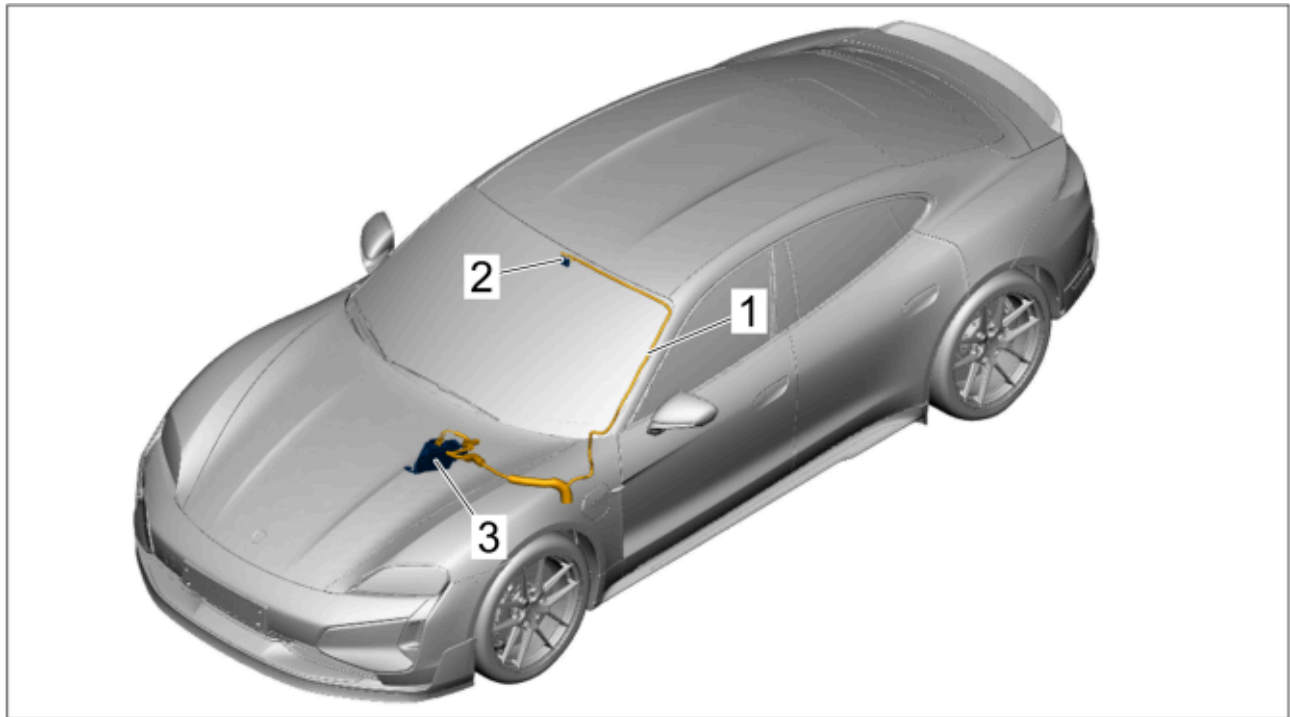
- The fault memory entry "C12D5FA" is **passively** stored in the control unit for driver assistance systems (ZFAS). Install the new video line. Continue with: ⇒ *Technical Information 'Preparatory work for rerouting the video line'*

or

- The fault memory entry "C12D5FA" is **actively** stored in the control unit for driver assistance systems (ZFAS). Replace the control unit for driver assistance systems (ZFAS). Continue with: ⇒ *Technical Information 'Replacing the control unit for driver assistance systems (ZFAS) (if the C12D5FA fault memory is actively stored)'*

Installation

Position:



Installation position for the video line - left-hand drive

- 1 – Video line
- 2 – Front camera for driver assistance systems
- 3 – Control unit for driver assistance systems (ZFAS)

Required parts and material for installing a new video line (passive fault memory entry)

Parts Info:

Part No.	Designation – Location	Number
9J1998045Q	⇒ Repair kit for the antenna line – Including antenna connector for the control unit for driver assistance systems	1 piece

9J1998045H	⇒ Repair kit for the antenna line – Including antenna connector for the front camera	1 piece
9J1998045M	⇒ Connecting piece – Antenna line	1 piece
9A700748300	⇒ M10 x 28 external hexagon round-head bolt – Seat rail on body – Production date up to 07/12/2023	8 piece
or		
PAF011175	⇒ Internal serration screw, M10 x 28 – Seat rail on body – Production date from 07/13/2023	8 piece
N 91093502	⇒ Internal hexagon oval-head collar screw, self-locking M6 x 30 – Passenger airbag unit on dashboard	4 piece
N 90799102	⇒ Countersunk screw with internal serration, self-locking M18 x 1.5 x 18 – Steering wheel on steering column	1 piece
N 10786201	⇒ Internal hexagon oval-head collar screw M6 x 12 – Holder for passenger airbag on dashboard	2 piece
N 91188301*	⇒ Internal hexagon cheese head bolt M6 x 20 – Knee airbag for driver on dashboard	2 pieces (if required)*
PAF015082*	⇒ Hexagon collar nut M6 – Knee airbag for passenger on dashboard	5 pieces (if required)*



Information

*Screws and nuts are required for the knee airbags depending on the equipment of the affected vehicle.

Material: **Required material** (usually already available in the Porsche Center)

Part No.	Designation	Quantity
...	⇒ Non-woven adhesive tape, approx. 19 mm (0.75 in) wide – e.g. TESA 51616 ID	As required
...	⇒ Cable tie – Commercially available	As required

Required parts for replacing the control unit for driver assistance systems (ZFAS) (active fault memory entry)

Parts Info:

Part No.	Designation – Location	Number
PAB9071XXX*	⇒ Control unit for driver assistance systems	1 piece
or		
PAD9071XXX*	⇒ Control unit for driver assistance systems	1 piece
9A700748300	⇒ M10 x 28 external hexagon round-head bolt – Seat rail on body – Production date up to 07/12/2023	4 piece
or		
PAF011175	⇒ Internal serration screw, M10 x 28 – Seat rail on body – Production date from 07/13/2023	4 piece



Information

*Find which variant of the control unit for driver assistance systems (ZFAS) is required for the respective vehicle using the vehicle identification number in the Porsche Spare Parts Catalogue (PET2).

Required tools

Tools:

- **P90999 - Porsche Tester 4**
- Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 - battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charge battery and vehicle electrical system'*
- Torque wrench 2-10 Nm (2-8 ftlb.), e.g. **V.A.G 1783 - torque wrench 2-10 Nm (2-8 ftlb.)**
- Torque wrench 6-50 Nm (4.5-37 ftlb.), e.g. **V.A.G 1331A - torque wrench 6-50 Nm (4.5-37 ftlb.)**
- Torque wrench 40-200 Nm (30-148 ftlb.), e.g. **V.A.G 1332A - torque wrench, 40-200 Nm (30-148 ftlb.)**

Additional required tools if the video line must be rerouted:

- **VAS 6720 - Repair set for antenna lines**
- **3438 - Hooks**
- **9570/1 - Disassembly tool**
- Plastic wedge, commercially available
- Cable pull-in aid, commercially available **or** welding wire with bent ends

Preparatory work for rerouting the video line**Information**

In order to ensure the fault-free functioning of the new video line, the new video line must be laid along the original main wire harness. Extensive preparatory work is required to make this possible.

- Work Procedure:
- 1 Remove the (front) inner door sill trim on the left.
The (rear) inner door sill trim does not need to be removed completely.
⇒ *Workshop Manual '68051901 Removing and installing the (front) inner door sill trim'*
 - 2 Remove the dashboard.
⇒ *Workshop Manual '701819A1 Removing and installing the dashboard'*
 - 3 Remove the central computer.
⇒ *Workshop Manual '915219A1 Removing and installing the central computer'*
 - 4 Remove the front roof console.
⇒ *Workshop Manual '708319A4 Removing and installing the front roof console'*
 - 5 Remove the interior rearview mirror.
⇒ *Workshop Manual '682719A1 Removing and installing the interior rearview mirror'*
 - 6 Remove the left sun visor.
For procedure, see: ⇒ *Workshop Manual '682319A1 Removing and installing the sun visor'*
 - 7 Loosen the roof trim in the area of the windshield to gain access to the video line in the area of the roof.
For work procedure, see: ⇒ *Workshop Manual '708419A4 Removing and installing the roof trim'*

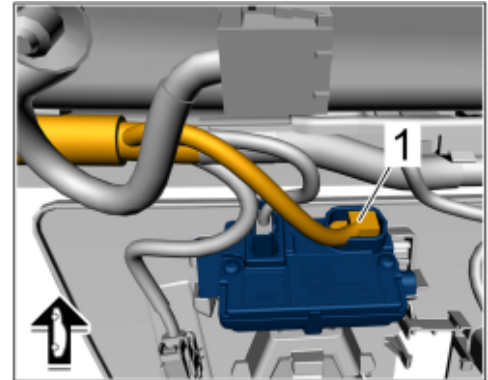
- 8 Expose the front camera and release and disconnect the plug connection for the video line ⇒ *Electrical plug connection for front camera video line -1-*.
The front camera does not have to be removed for this.
For work procedure, see: ⇒ *Workshop Manual '963819A2 Removing and installing the front camera'*

Disconnect the previous plug connection using a side cutter, secure and insulate the electrical line at a suitable point. This is no longer needed.

- 9 Release and disconnect the previous electrical plug connection for the **white** video line on the control unit for driver assistance systems (ZFAS).

Disconnect the previous plug connection using a side cutter, secure and insulate the electrical line at a suitable point. This is no longer needed.

- **For left-hand drive vehicles:** ⇒ *Technical Information '963819A2 Rerouting the video line between the front camera (R232) and the control unit for driver assistance systems (ZFAS) - vehicles with left-hand drive'*



Electrical plug connection for front camera video line

Rerouting the video line between the front camera (R232) and the control unit for driver assistance systems (ZFAS) - vehicles with left-hand drive



Information

The new video lines are contacted at the respective front camera control unit (R232) or control unit for driver assistance systems (ZFAS) and laid along the main wire harness.

After being laid, the video lines are cut and connected to the electrical connectors from repair kit 9J1998045M.

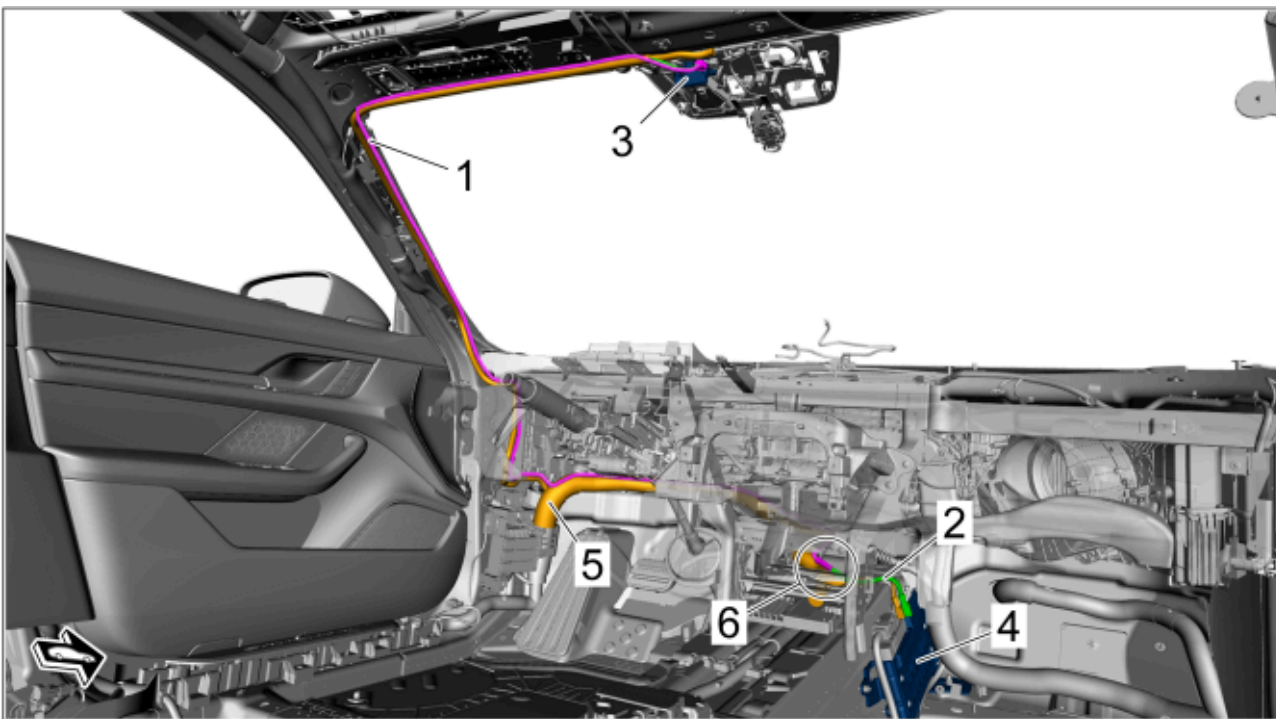
- Work Procedure: 1 Lay the new video lines.

Fasten the new video lines to the main wire harness without chafing and tension using cable ties or non-woven adhesive tape on the outside.



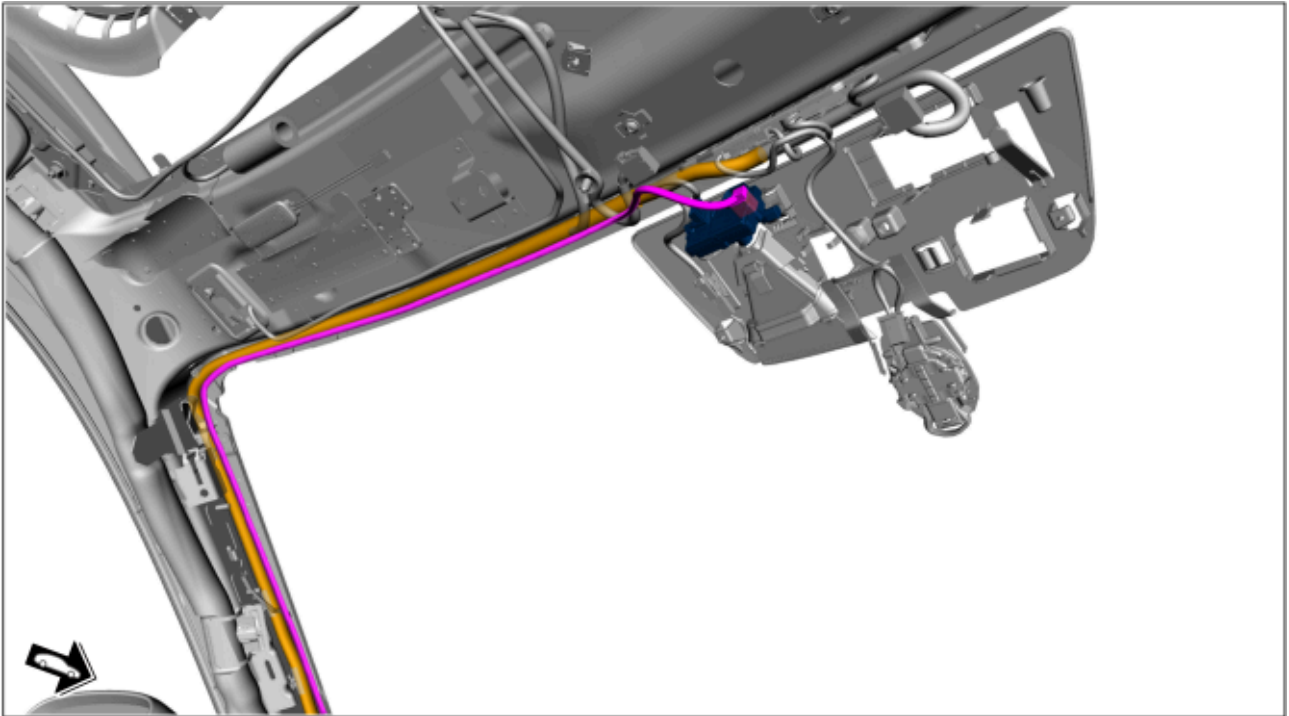
Information

In order to ensure the fault-free functioning of the new video lines, the new video lines must be laid along the main wire harness. Alternative routing is not expedient.



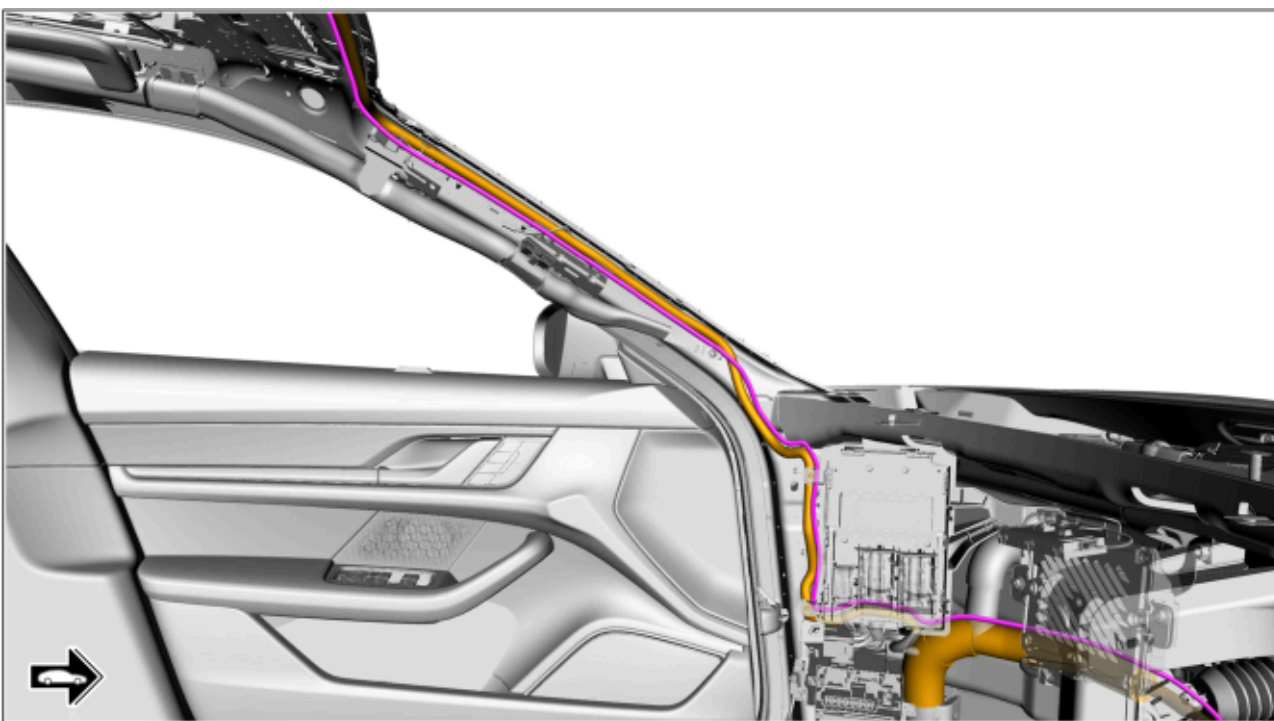
Overview of video line routing - left-hand drive

- 1.1 Contact the **new** video line 9J1998045H ⇒ Overview of video line routing - left-hand drive -1- on the front camera ⇒ Overview of video line routing - left-hand drive -3- and lay it in the direction of the control unit for driver assistance systems (ZFAS) ⇒ Overview of video line routing - left-hand drive -4- along the main wire harness ⇒ Overview of video line routing - left-hand drive -5- up to the connection point ⇒ Overview of video line routing - left-hand drive -6-.
- 1.2 Contact the **new** video line 9J1998045Q ⇒ Overview of video line routing - left-hand drive -2- on the control unit for driver assistance systems (ZFAS) ⇒ Overview of video line routing - left-hand drive -4- and lay it along the main wire harness ⇒ Overview of video line routing - left-hand drive -5- up to the connection point ⇒ Overview of video line routing - left-hand drive -6-.
- 2 Lay the video line in the roof area. ⇒ Routing in the roof area



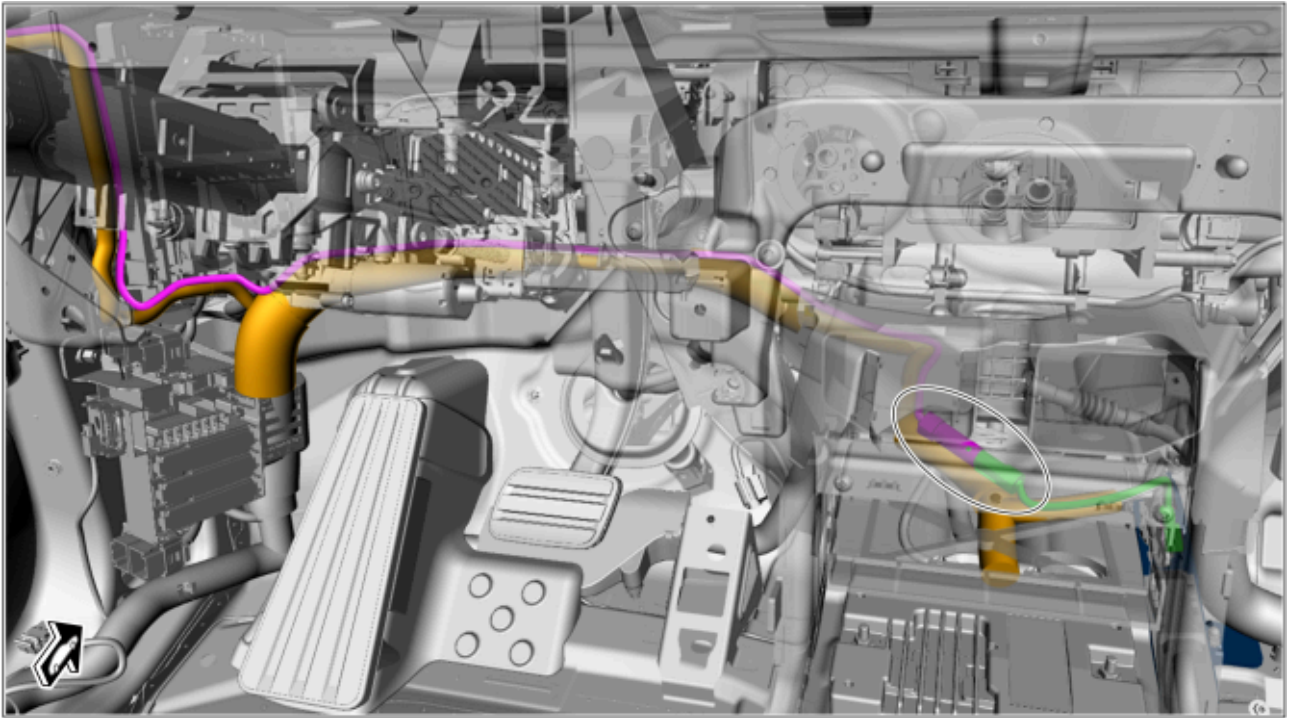
Routing in the roof area

- 3 Lay the video line in the area of the A-pillar. ⇒ *Routing in the area of the A-pillar*



Routing in the area of the A-pillar

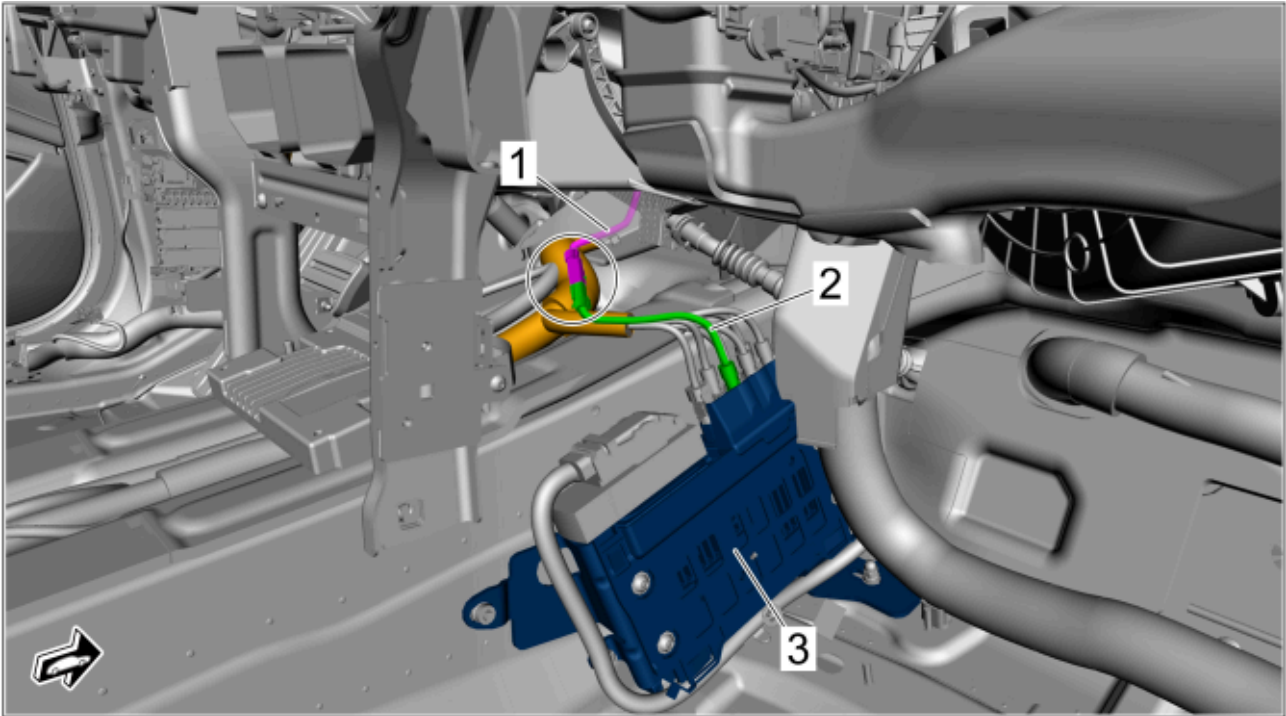
- 4 Lay the video line in the dashboard area. ⇒ *Routing in the dashboard area*



Routing in the dashboard area

Circle – Video line connection point area

- 5 Connect the video lines in the dashboard area with repair kit 9J1998045M.



Connection point for video lines on the dashboard



Information

Make sure that there is sufficient line protrusion in the area of the connection point so that the new video lines are laid without chafing and tension after attaching the electrical plug connections.

- 5.1 Cut both video lines ⇒ *Connection point for video lines on the dashboard -1 and 2-* to the required length.
The connection point ⇒ *Connection point for video lines on the dashboard -Circle-* should be approx. 195 mm away from the control unit for driver assistance systems (ZFAS) ⇒ *Connection point for video lines on the dashboard -3-*.
Dispose of the cut-off ends of the line; these are no longer required.
- 5.2 Attach and crimp electrical plug connections from repair kit 9J1998045M to the line ends of the video lines.
⇒ *Workshop Manual '912841C8 Repairing the antenna cable'*
- 5.3 Contact the electrical plug connections.

Follow-up actions after rerouting of the video line

- Work Procedure: 1 Fasten the roof trim panel in the area of the windshield.
For work procedure, see: ⇒ *Workshop Manual '708419A4 Removing and installing the roof trim'*

- 2 Install the left sun visor.
⇒ *Workshop Manual '682319A1 Removing and installing the sun visor'*
- 3 Install the interior rearview mirror.
⇒ *Workshop Manual '682719A1 Removing and installing the interior rearview mirror'*
- 4 Install the front roof console.
⇒ *Workshop Manual '708319A4 Removing and installing the front roof console'*
- 5 Install the central computer.
⇒ *Workshop Manual '915219A1 Removing and installing the central computer'*
- 6 Install the dashboard.
⇒ *Workshop Manual '701819A1 Removing and installing the dashboard'*
- 7 Install the (front) inner door sill trim on the left.
⇒ *Workshop Manual '68051901 Removing and installing the (front) inner door sill trim'*
- 8 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging the battery/vehicle electrical system'*
- 9 Connect **P90999 - Porsche Tester 4**, establish readiness for operation and start the diagnostic application.
- 10 Read out and delete all control unit fault memories.
- 11 End the diagnostic application, end readiness for operation and disconnect **P90999 - Porsche Tester 4** from the vehicle.
- 12 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging the battery/vehicle electrical system'*

End of action.

It is not necessary to replace the control unit for driver assistance systems (ZFAS).

Replacing the control unit for driver assistance systems (ZFAS) (if the C12D5FA fault memory is actively stored)

- Work Procedure: 1 Remove the control unit for driver assistance systems and replace it with a **new** control unit for driver assistance systems.
⇒ *Workshop Manual '910219A1 Removing and installing the central control unit for assistance systems'*
⇒ *Workshop Manual '910255A1 Replacing the central control unit for assistance systems'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
91282340	Rerouting the video line	
91282341	Rerouting the video line	
91025540	Replacing the central control unit for assistance systems	

PCSS encryption:

Location (FES5)	91020	Central control unit for assistance systems
Damage type (SA4)	1613	not functioning from time to time

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