



H117NAS1

TECHNICAL BULLETIN

24 JUL 2018

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NOTE: The information in Technical Bulletins is intended for use by trained, professional Technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these Technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by 'do-it-yourselfers'. If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Jaguar service facility to determine whether this bulletin applies to a specific vehicle.

INFORMATION

SECTION:

418-02: Wiring Harnesses

SUBJECT/CONCERN:

Service Action: Unsealed Splices on Rear Axle and Passenger Compartment Harness

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:
E-PACE (X540)	2018	Z08161-Z19553	Graz (Austria)

MARKETS:

NORTH AMERICA:

CONDITION SUMMARY:**SITUATION:**

An issue has been identified on certain Jaguar vehicles within the listed Affected Vehicle Range which may have unsealed splices in the wet area on the rear axle and passenger compartment harnesses. Water ingress may lead to numerous failure states across the powertrain and comfort Controller Area Networks (CAN), resulting in Malfunction Indicator Lamps (MIL) and/or warning messages on the Instrument Cluster.

ACTION:

Retailers are required to **HOLD** affected new vehicles that are within your control and refrain from releasing the vehicles for **new vehicle sale** pending completion of the Workshop Procedure detailed in this Technical Bulletin. Unsold vehicles should have this performed as part of the Pre-Delivery Inspection (PDI) process but **must** have it completed prior to vehicle handover to the customer.

Affected vehicles already in the hands of customers should be updated at the next available opportunity.

PARTS:**NOTE:**

Order only the expected percentage demand of parts identified.

DESCRIPTION	PART NO./SUNDRY CODE	QTY./VALUE	EXPECTED PERCENTAGE DEMAND
Rear Differential Control Module (RDCM) - Without Active Driveline	C2S52625	1	1
Rear Axle Harness - Without Active Driveline	J9C13735	1	1
Rear Differential Control Module (RDCM) - With Active Driveline	J9C7754	1	1
Bolts - Driveshaft - With Active Driveline	C2Z15150	6	1
Rear Axle Harness - With Active Driveline	J9C13734	1	1

DESCRIPTION	PART NO./SUNDRY CODE	QTY./VALUE	EXPECTED PERCENTAGE DEMAND
50mm glue-lined heat shrink (4) Electrical tape 300mm x 4.5mm cable tie (1)	ZZZ999	\$4.55	100

Jaguar Land Rover-approved glue-lined heat shrink (service part number 418104) or equivalent may be used.

An allowance of \$4.55 USD or local equivalent has been provided to cover the cost of the glue-lined heat shrink, electrical tape, and cable ties.

WARRANTY:

NOTE:

Use the Jaguar Land Rover claims submission system to make sure that a vehicle is affected by this program prior to undertaking any rework action.

At the time of confirming a booking for vehicle repair, make sure that **all** open Recall and Service Actions are identified to make sure the correct parts are available and adequate workshop time is allocated for repairs to be completed at one visit.

Warranty claims must be submitted quoting the Program Code and the relevant Option Code; this will result in payment of the stated time. The SRO and parts information is included for information only. The Option Code(s) that allows for the drive in/drive out allowance may only be claimed if the vehicle is brought back into the workshop for this action alone to be undertaken.

Repair procedures are under constant review and therefore times / prices are subject to change; those quoted here must be taken as guidance only. Use the Jaguar Land Rover claims submission system to obtain the latest repair time.

This program is valid for a limited time only. Warranty claims with a repair date prior to the **30 June 2020** closure date must be submitted or payment within 30 calendar days of completion of the repair.

PROGRAM CODE	OPTION CODE	DESCRIPTION	SRO	TIME (HOURS)	PARTS/SUNDRY CODE	QTY./VALUE
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PROGRAM CODE	OPTION CODE	DESCRIPTION	SRO	TIME (HOURS)	PARTS/SUNDRY CODE	QTY./VALUE
H117	A	Main wiring harness rework and check connections - No further action	86.71.42	0.5	ZZZ999	\$4.55
H117	B	Main wiring harness rework and check connections - No further action Drive in/drive out	86.71.42 10.10.10	0.5 0.2	ZZZ999 -	\$4.55 -
H117	C	Main wiring harness rework and check connections - No further action RDCM and harness - Without Active Driveline - Replace	86.71.42 51.91.22	0.5 0.6	ZZZ999 C2S52625 J9C13735	\$4.55 1 1
H117	D	Main wiring harness rework and check connections - No further action RDCM and harness - Without Active Driveline - Replace Drive in/drive out	86.71.42 51.91.22 10.10.10	0.5 0.6 0.2	ZZZ999 C2S52625 J9C13735 -	\$4.55 1 1 -
H117	E	Main wiring harness rework and check connections - No further action RDCM and harness - With Active Driveline - Replace	86.71.42 51.91.22	0.5 0.6	ZZZ999 J9C7754 J9C13734 C2Z15150	\$4.55 1 1 1
H117	F	Main wiring harness rework and check connections - No further action RDCM and harness - With Active Driveline - Replace Drive in/drive out	86.71.42 51.91.22 10.10.10	0.5 0.6 0.2	ZZZ999 J9C7754 J9C13734 C2Z15150 -	\$4.55 1 1 1 -

An allowance of \$4.55 USD or local equivalent has been provided to cover the cost of the glue-lined heat shrink, electrical tape, and cable ties.

WORKSHOP PROCEDURE 'A':

NOTES:

- Some variation in the illustrations may occur, but the essential information is always correct.

- Some components shown removed for clarity.
- Side Obstacle Detection may also be referred to as Blind Spot Monitor.

1 Check if vehicle is fitted with a Side Obstacle Detection system.

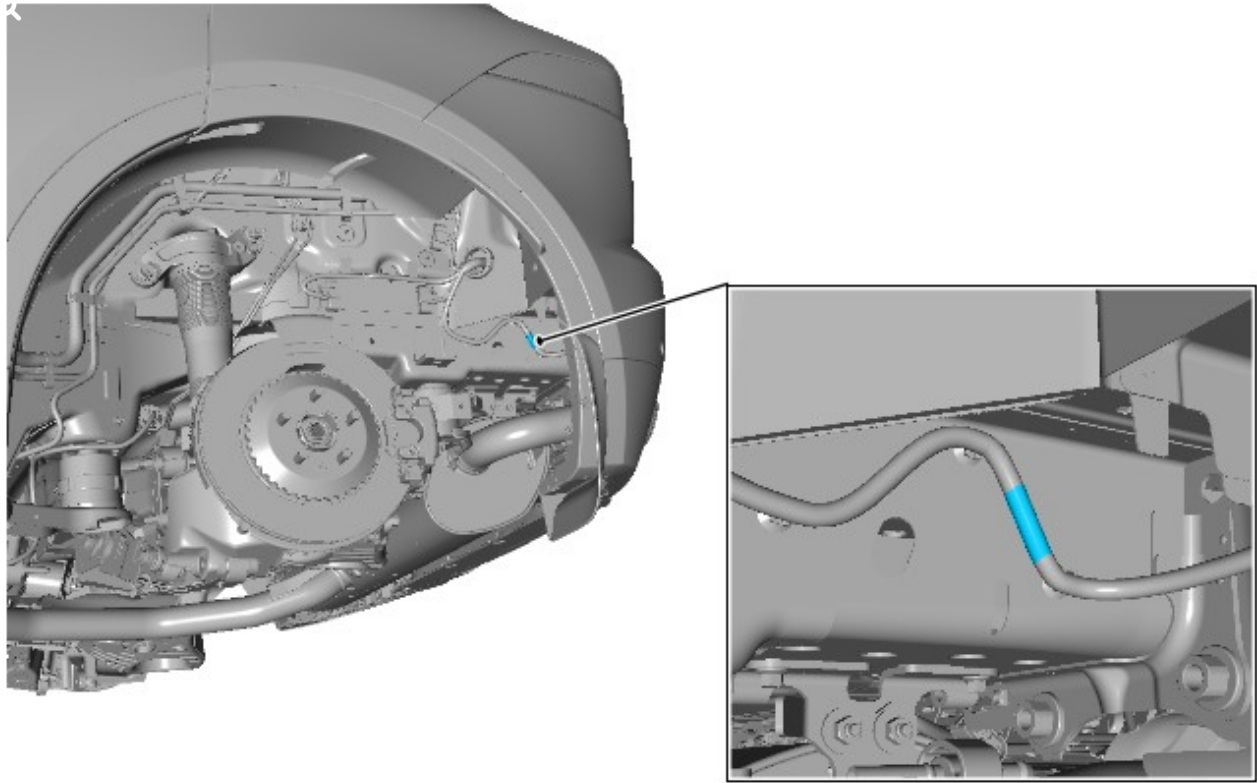
- If the vehicle is not fitted with the Side Obstacle Detection system, go to Step 10.
- If the vehicle is fitted with the Side Obstacle Detection system, go to Step 2.

2 Remove the rear left wheel arch liner (see TOPIx Workshop Manual section 501-08: Exterior Trim and Ornamentation - Rear Wheel Arch Liner).

3 Disconnect connector C44E/C44F (see TOPIx Electrical Reference Library - C44E Main harness to link harness) and inspect the connector for water ingress.

- If the connector does have signs of water ingress, **go to the Workshop Procedure 'B': Main Harness - Replace** below.
 - To be performed as a separate claim.
- If the connector does not have signs of water ingress, connect the connector and **go to Step 4**.

4



E227016

Unwrap the main wiring harness protection and access the body wiring harness located in the area shown.

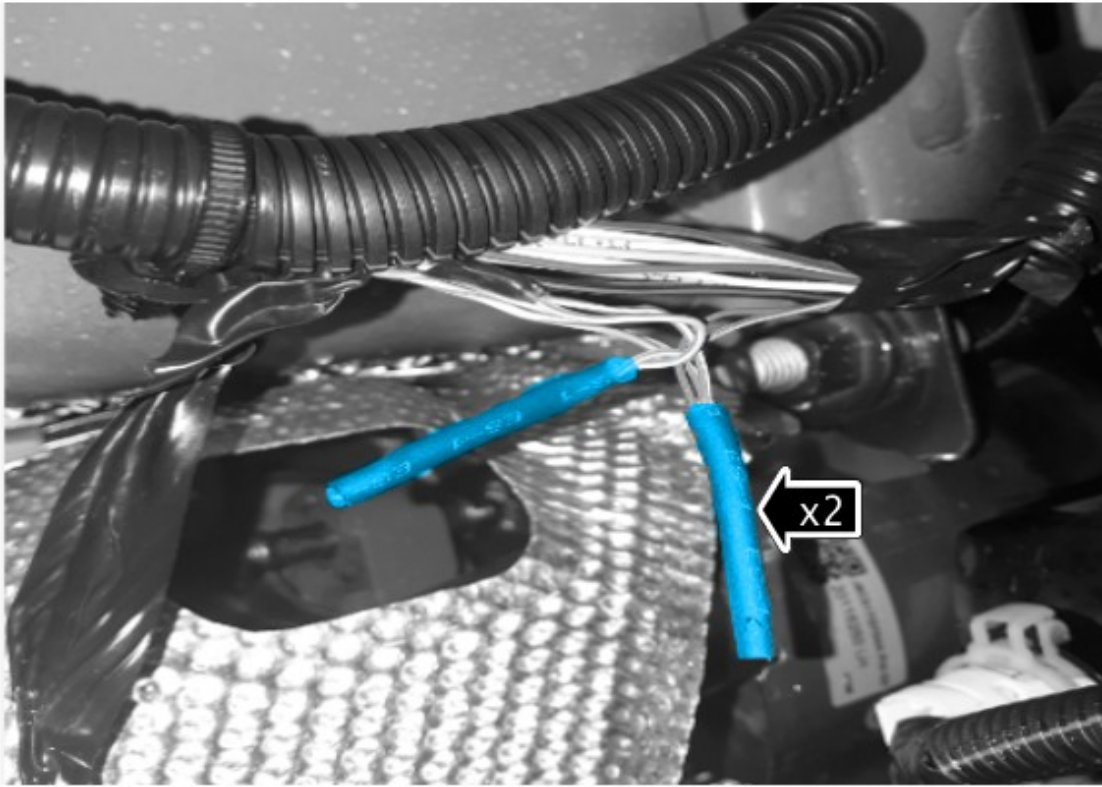
5

Locate splices **S3DB27G** and **S3DB28G** (see TOPIx section Electrical Information - Electrical Wiring Diagrams - 413-09: Warning Devices - Blind spot monitoring system).

6

ⓘ CAUTION:

Apply only sufficient heat to the glue-lined heat shrink sleeve to melt the glue in order to provide a water tight seal. Do not over heat the glue-lined heat shrink sleeve so that the wiring harness insulation becomes damaged.

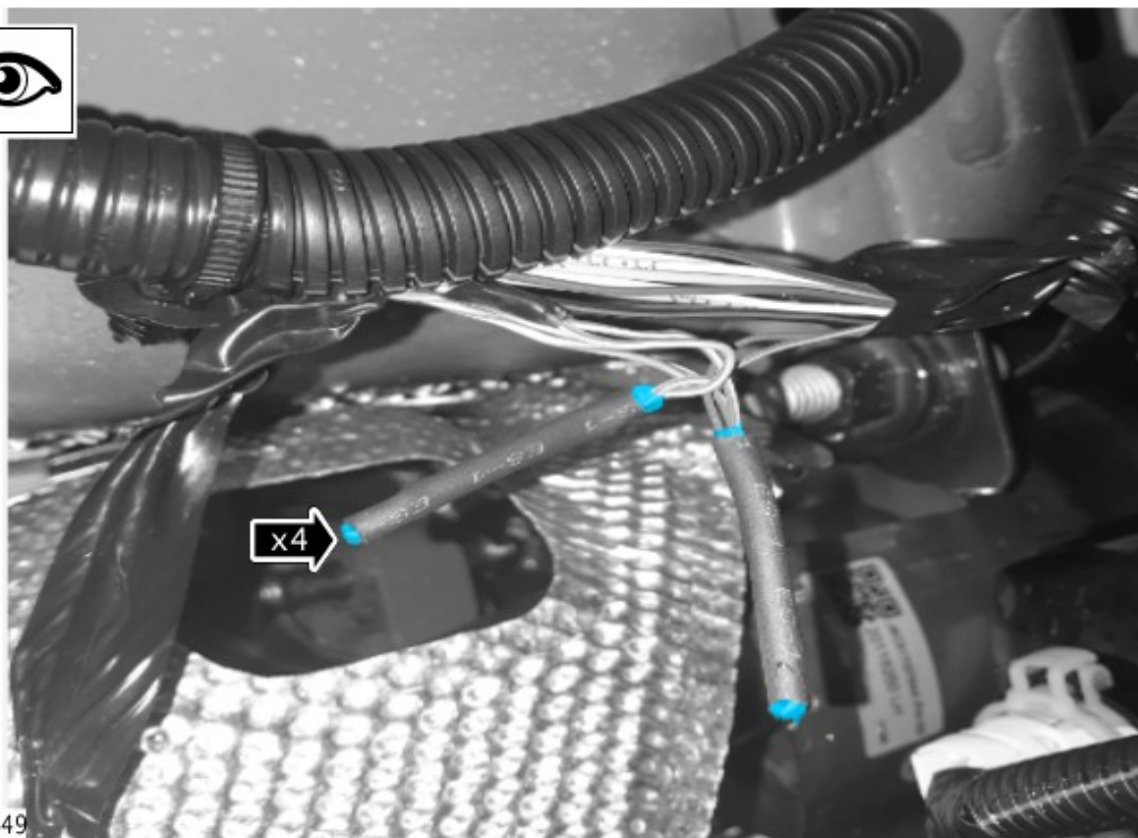


E227017

Apply glue-lined heat shrink to splices **S3DB27G** and **S3DB28G**.

- 1 Apply heat to the glue-lined heat shrinks to melt the glue.

7



E227849

Inspect both sides of the heat shrink for 1-2 mm of glue to make sure the splice is fully sealed.

8 Apply electrical tape and install the body wiring harness protection.

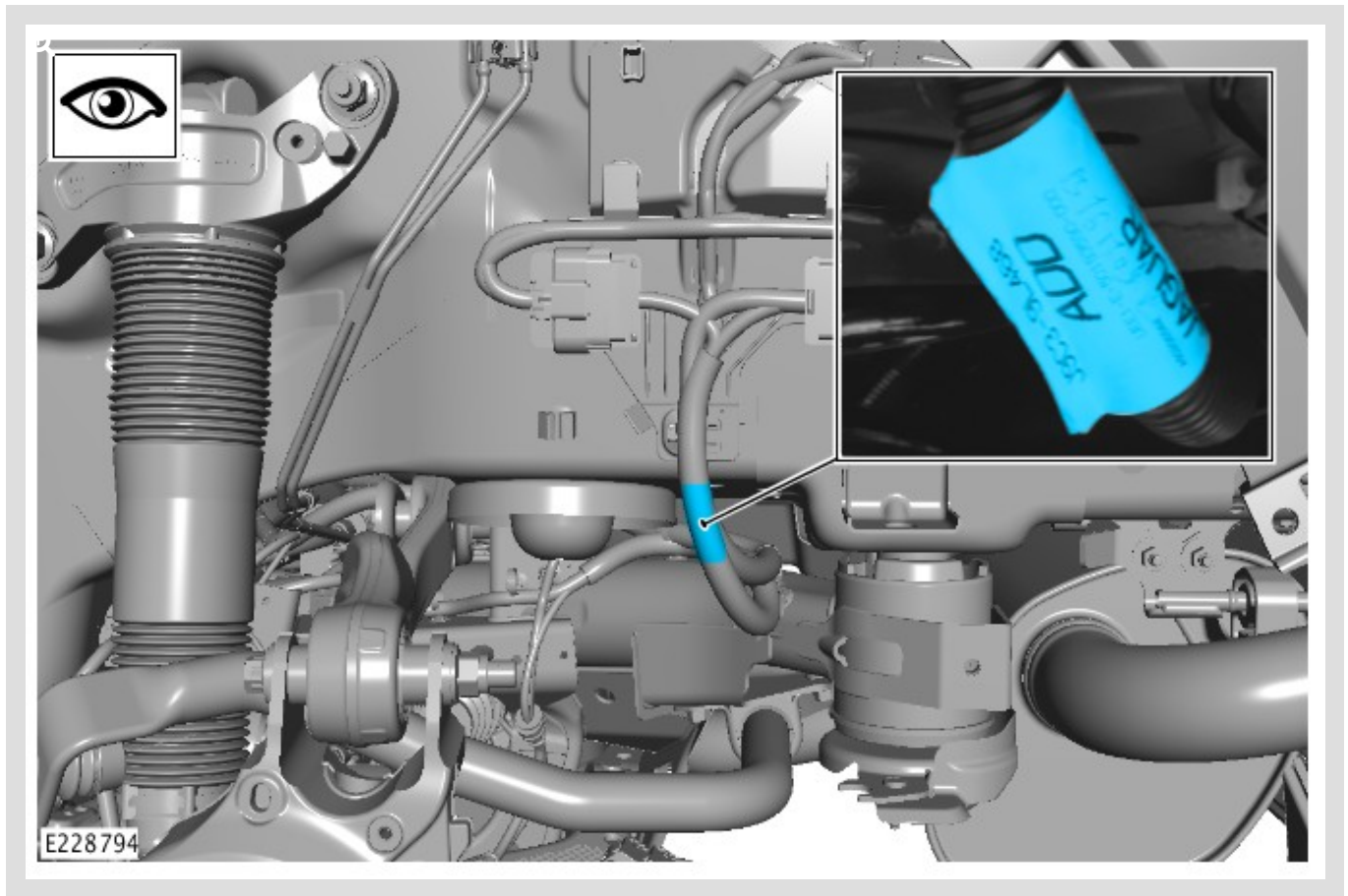
9 Install the rear left wheel arch liner (see TOPIx Workshop Manual section 501-08: Exterior Trim and Ornamentation - Rear Wheel Arch Liner).

1 Do not lower the vehicle.

10 Disconnect the appropriate connector and inspect for signs of water ingress.

- **Vehicles with Active Driveline - C3A101C** (see TOPIx Electrical reference library - C3A101C Module - AWD control (AWDCM)).
- **Vehicles without Active Driveline - C3A101A** (see TOPIx Electrical reference library - C3A101A Module - Standard driveline).
 - If water ingress is not found, go to Step 11.
 - If water ingress is found, go to **Workshop Procedure 'C': Rear Drive Control Module (RDCM) and Harness - Replace** below.

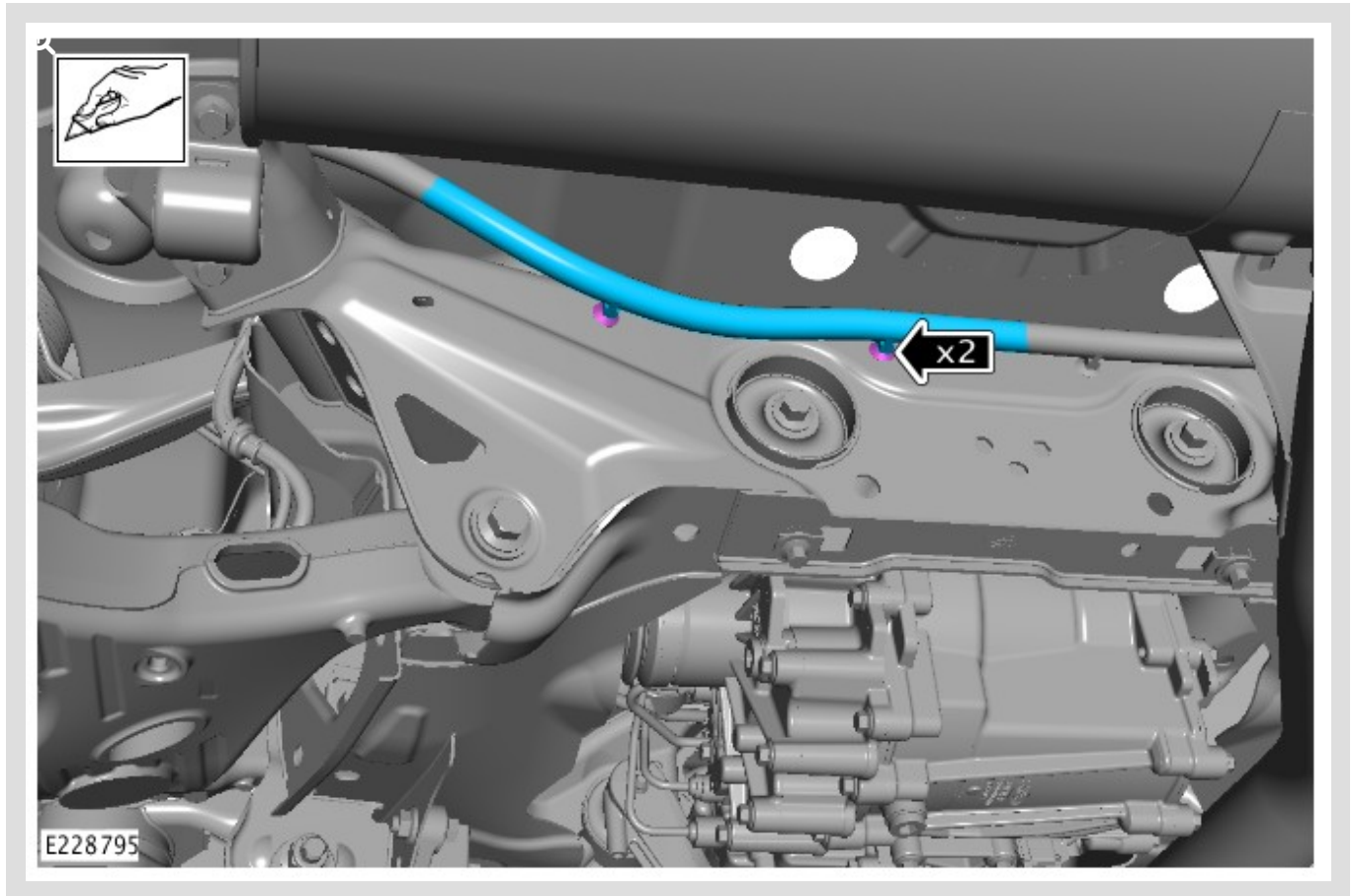
11



Inspect and record the rear axle wiring harness code.

- If the axle wiring harness label code is '**ACD**', perform Steps 19-25.
- If the axle wiring harness label code is '**ADD**', perform Steps 12-18 and 25.

12



Cut the 2 cable ties and remove the axle wiring harness protection in the highlighted area to access the axle wiring harness.

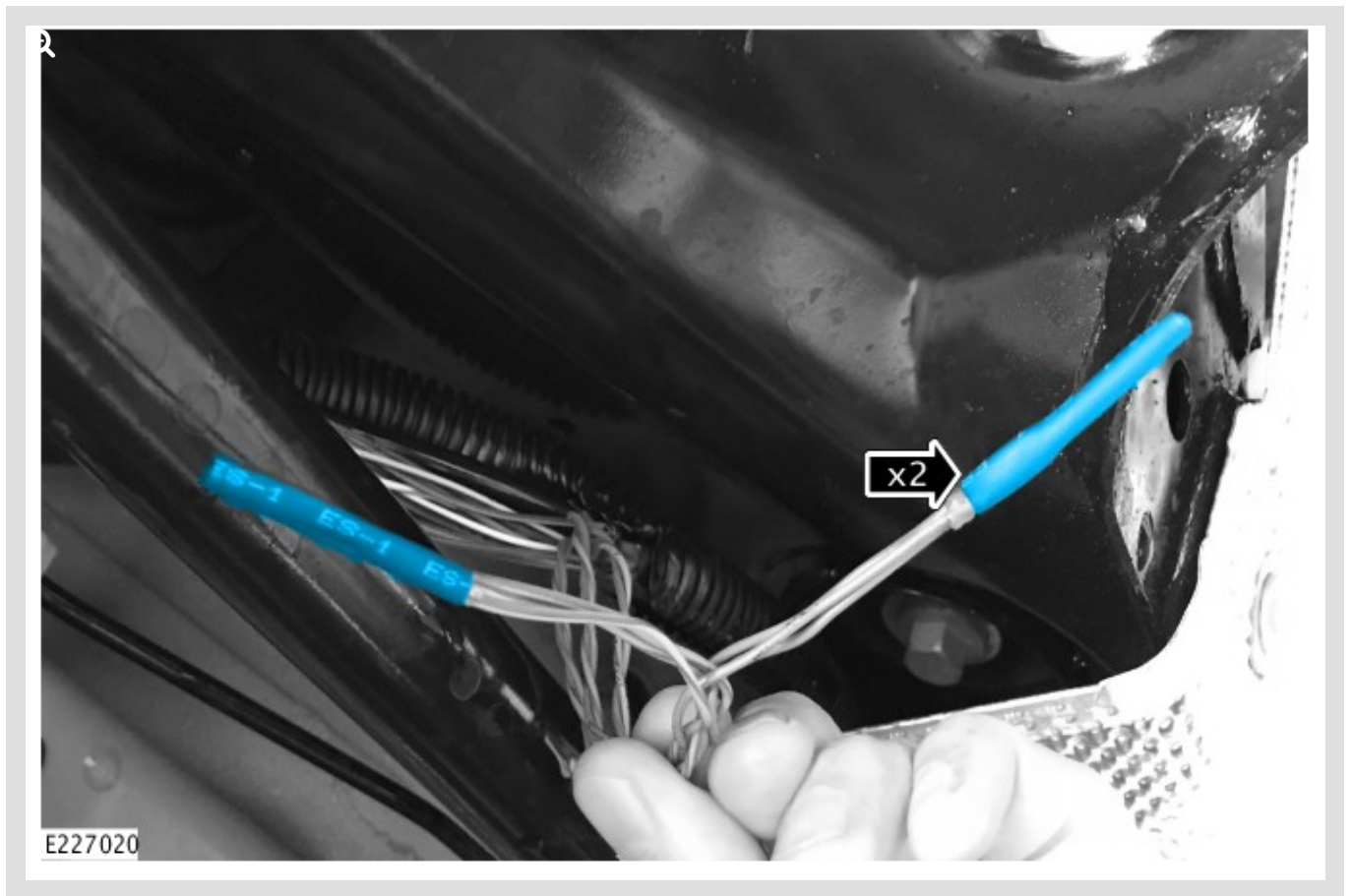
13 Locate splices **S4DB26GD** and **S4DB25GD** (see TOPIx section Electrical Information - Electrical Wiring Diagrams - 205-02: Rear Drive Axle and Differential - Active Driveline [Sheet 2]).

14 Remove any tape from splices **S4DB26GD** and **S4DB25GD**.

15

ⓘ CAUTION:

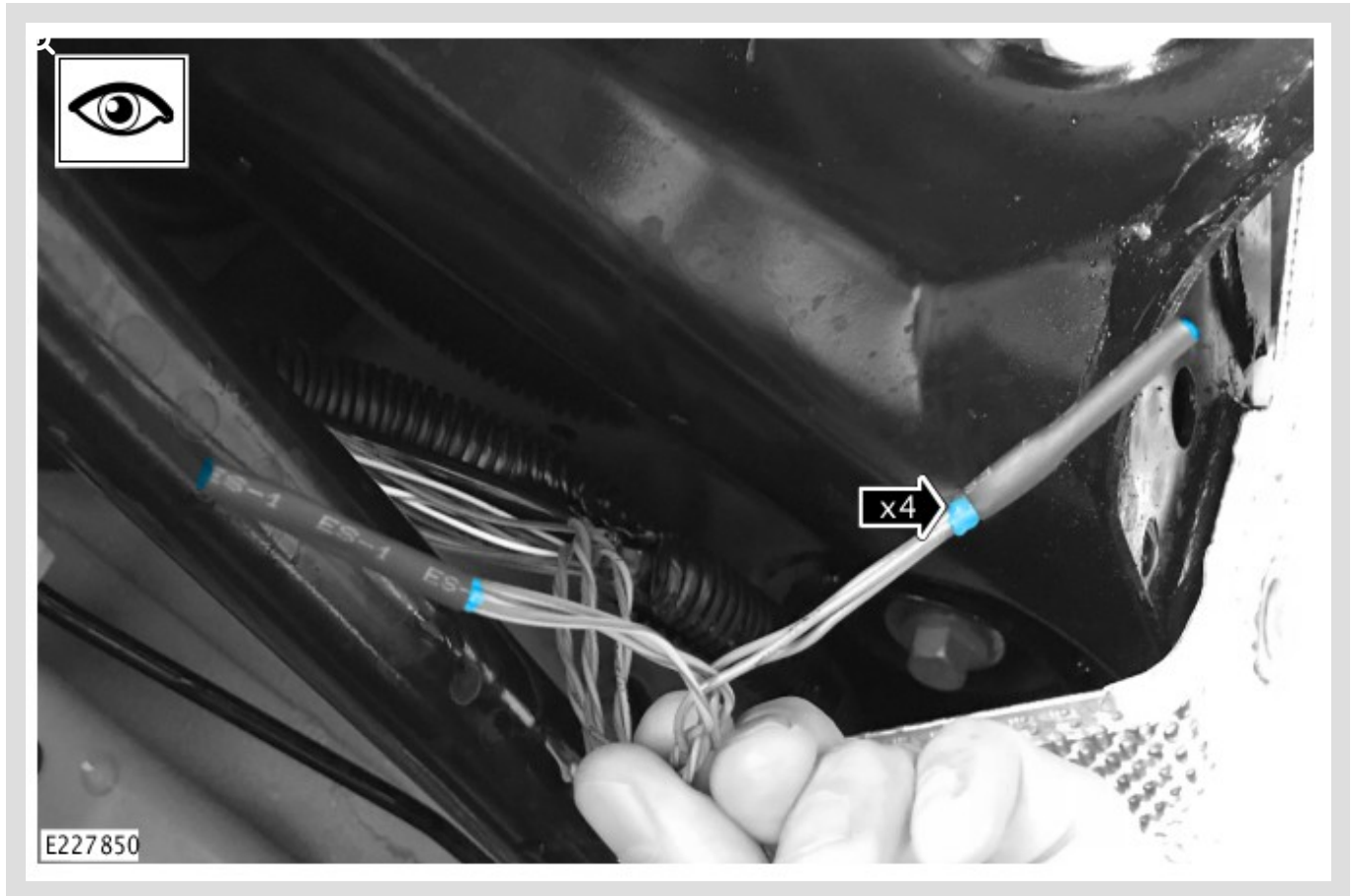
Apply only sufficient heat to the glue-lined heat shrink sleeve to melt the glue in order to provide a water tight seal. Do not over heat the glue-lined heat shrink sleeve so that the wiring harness insulation becomes damaged.



Apply 1 glue-lined heat shrink to each of the 2 splices as shown.

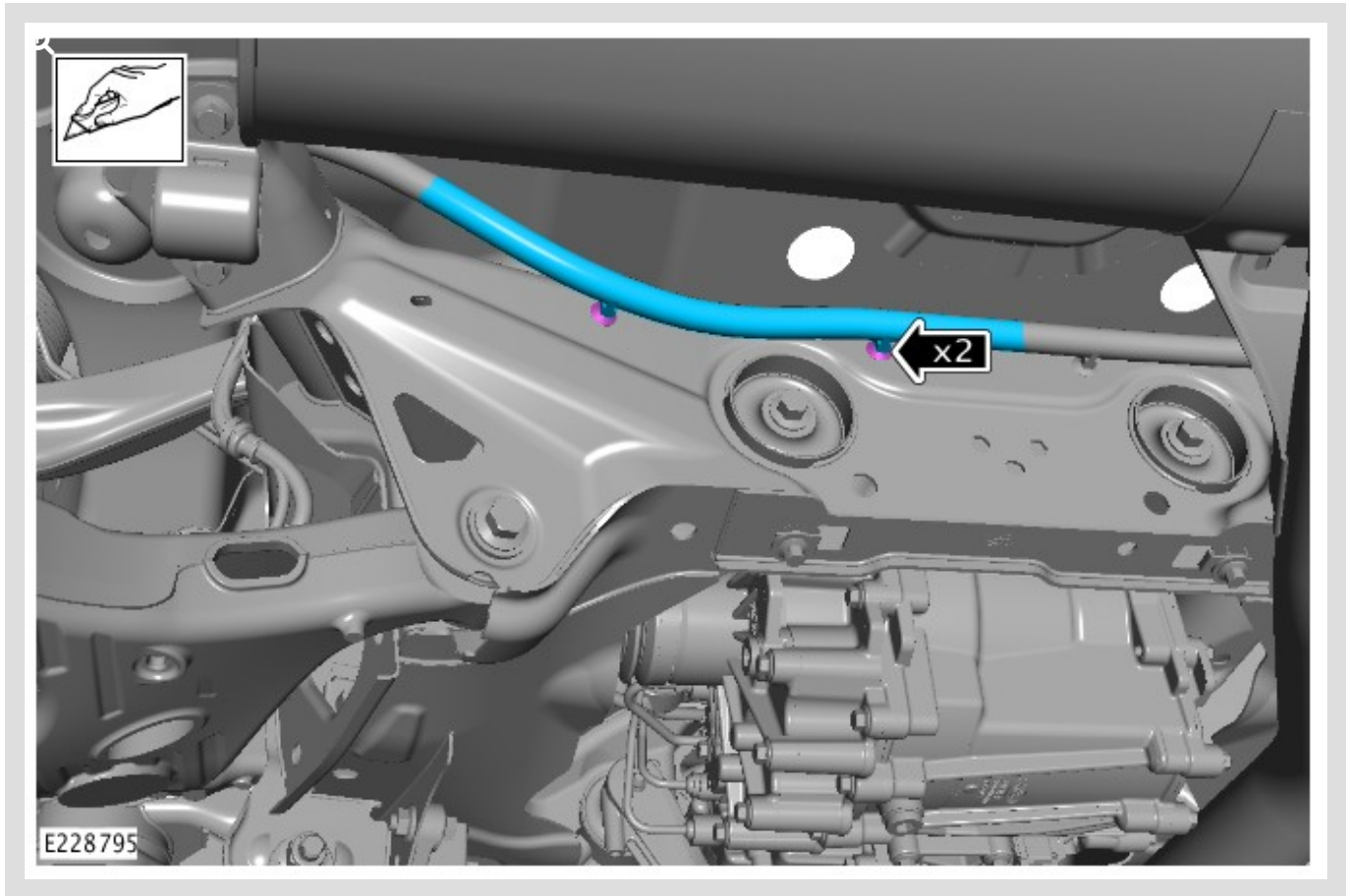
- 1 Apply heat to the glue-lined heat shrinks to melt the glue.

16



Visually inspect both sides of each heat shrink for 1-2 mm of glue to make sure the splices are fully sealed.

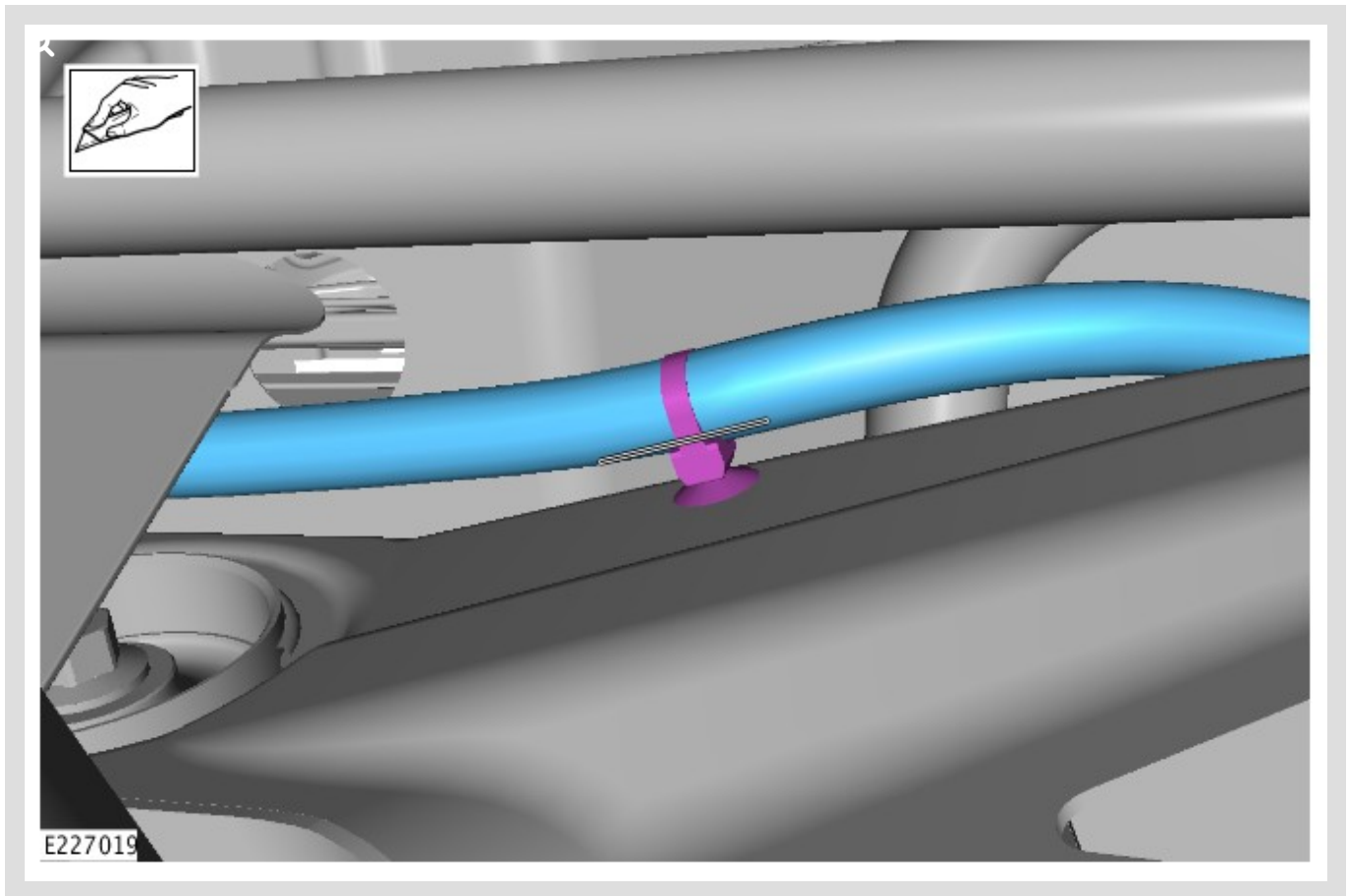
17 Apply electrical tape and install the body wiring harness protection.



Install the rear axle wiring harness.

- 1 Use 2 new cable ties to the base of the original fasteners.
- 2 Once all tasks are finished, go to Step 25.

19



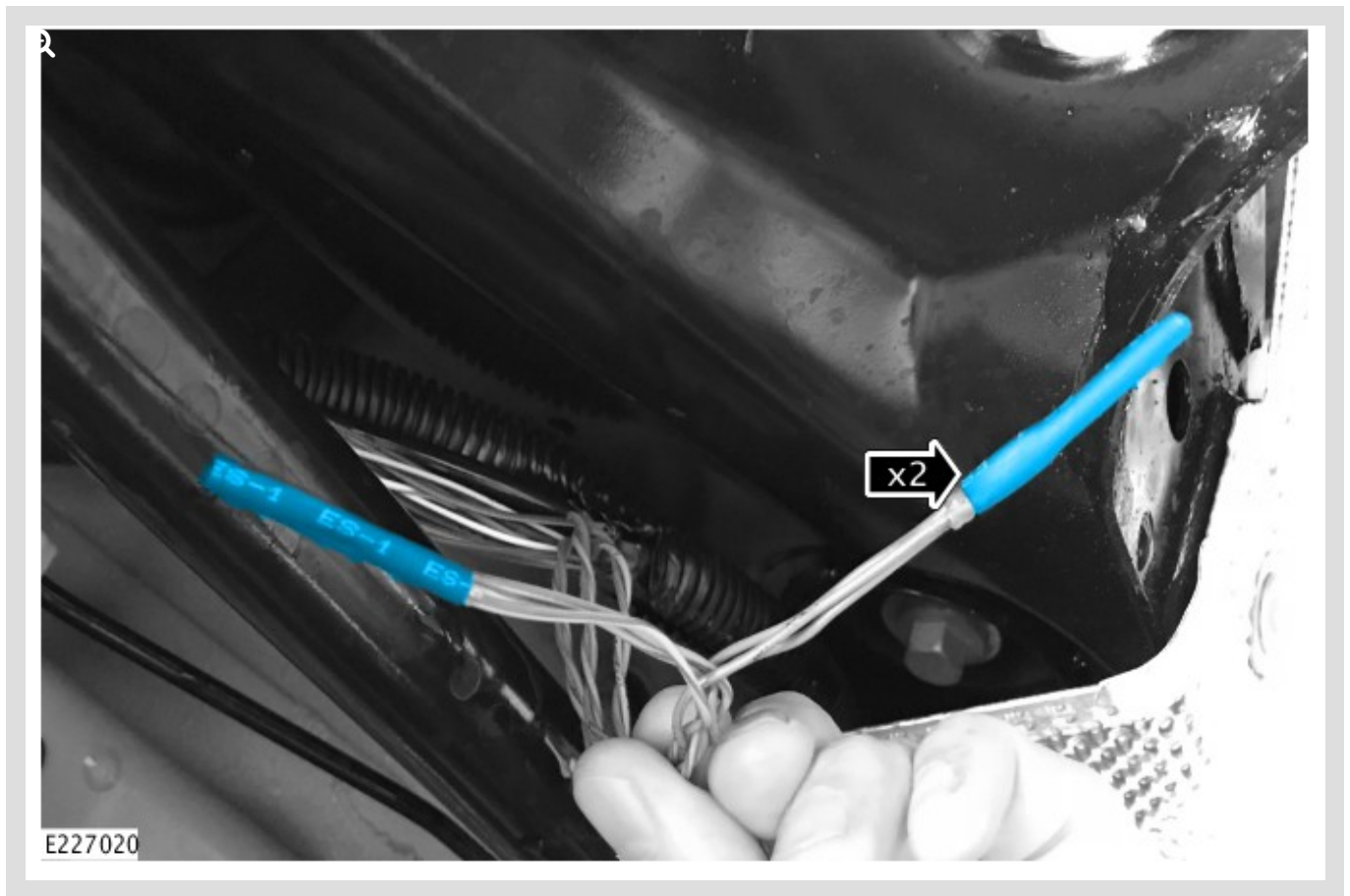
Cut the cable tie and remove the axle wiring harness protection in the highlighted area to access the axle wiring harness.

- 20 Locate splices **S4DB26GE** and **S4DB25GE** (see TOPIx section Electrical Information - Electrical Wiring Diagrams - 205-02: Rear Drive Axle and Differential - Without Active Driveline).

21

ⓘ CAUTION:

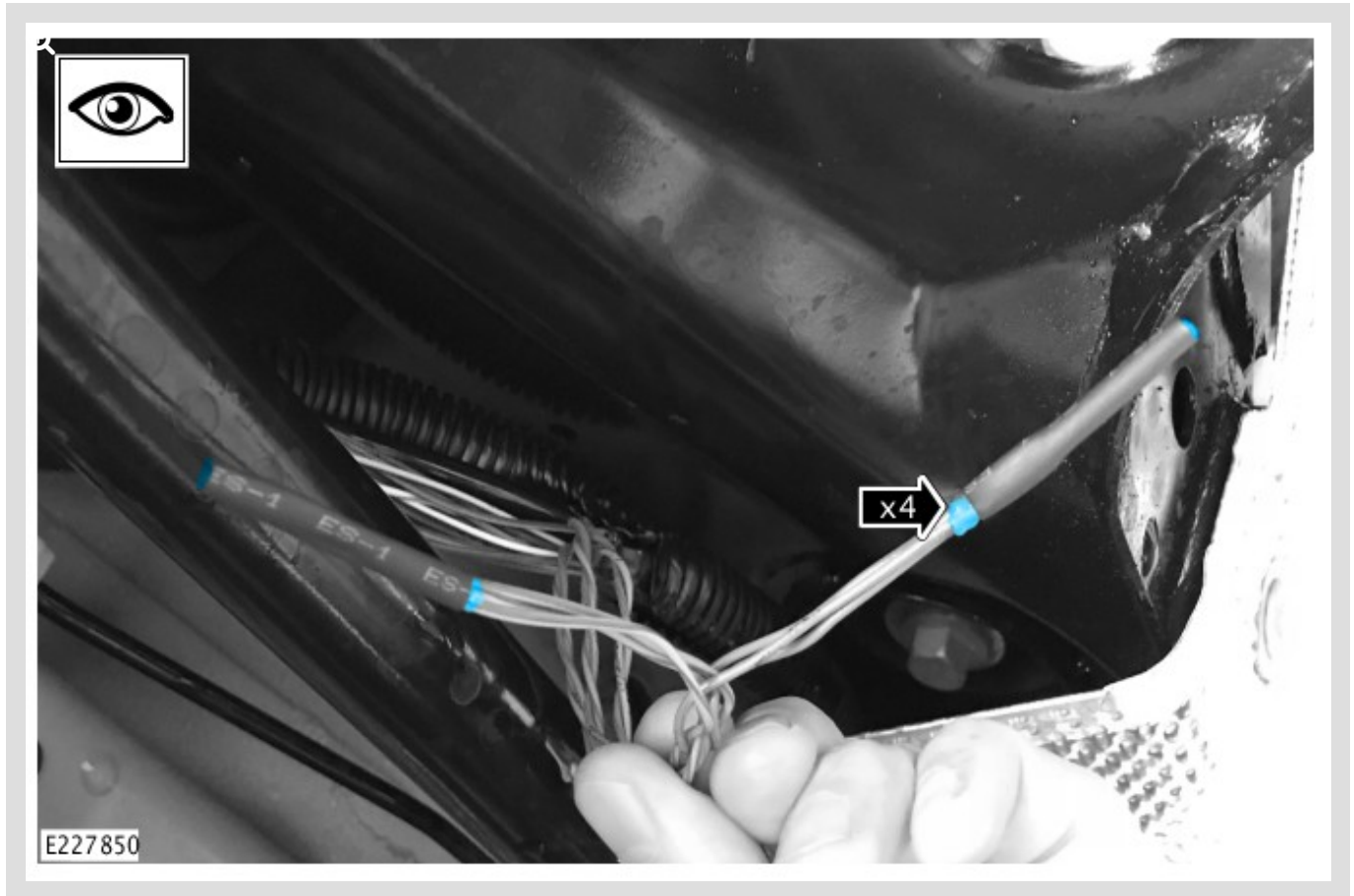
Apply only sufficient heat to the glue-lined heat shrink sleeve to melt the glue in order to provide a water tight seal. Do not over heat the glue-lined heat shrink sleeve so that the wiring harness insulation becomes damaged.



Apply 1 glue-lined heat shrink to each of the 2 splices as shown.

- 1 Apply heat to the glue-lined heat shrinks to melt the glue.

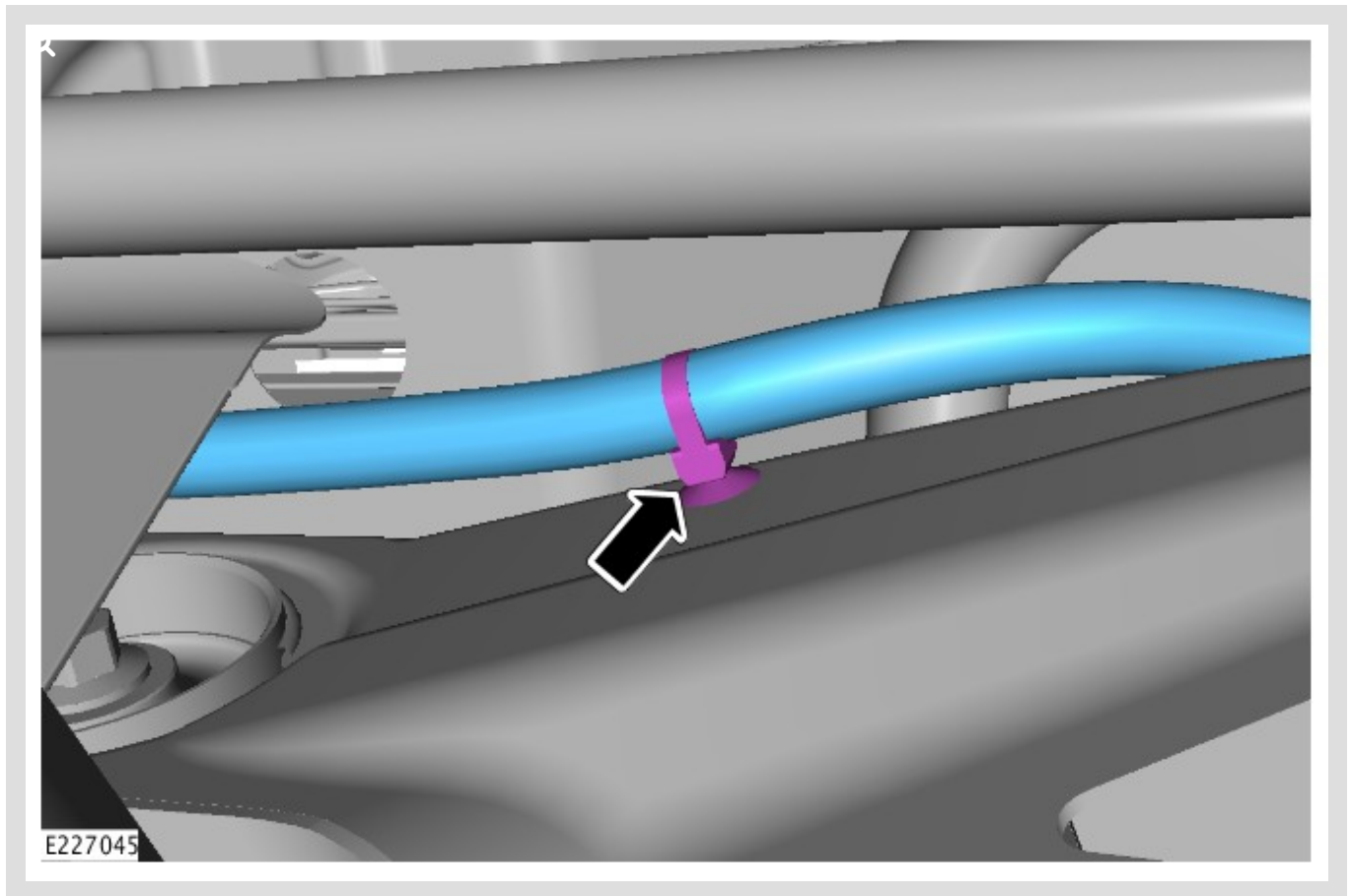
22



Visually inspect both sides of each heat shrink for 1-2 mm of glue to make sure the splices are fully sealed.

23 Apply electrical tape and install the body wiring harness protection.

24



Install the rear axle wiring harness.

- 1 Use a new cable tie to the base of the original fastener.

25 Lower and release the vehicle.

WORKSHOP PROCEDURE 'B': MAIN HARNESS - REPLACE

NOTE:

Main harness replacement must be claimed as a separate claim.

- 1 Replace the main harness (see TOPIx Workshop Manual section 418-02: Electrical Distribution - Main Wiring Harness).

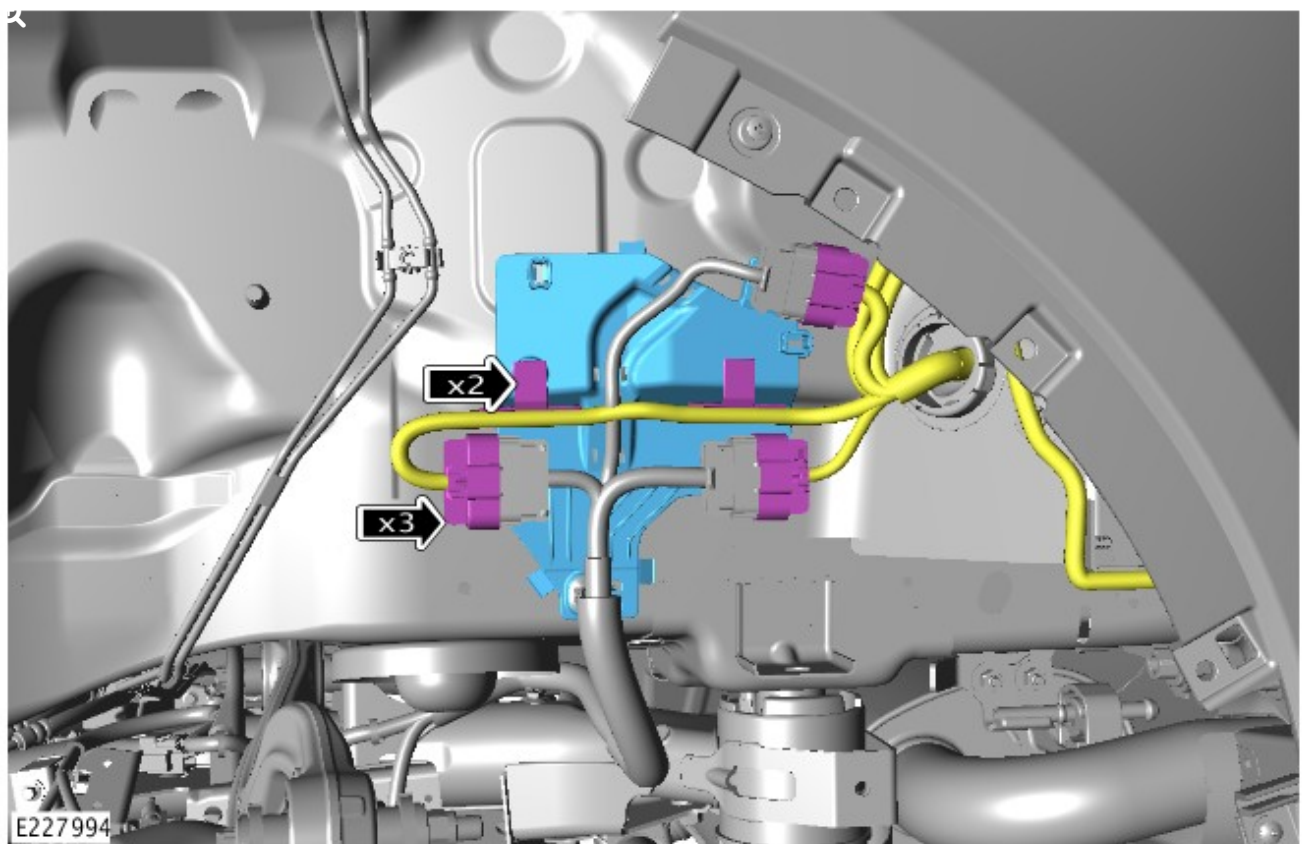
WORKSHOP PROCEDURE 'C': REAR DRIVE CONTROL MODULE (RDCM) AND HARNESS - REPLACE

1 Replace the Rear Drive Control Module (RDCM).

- **Vehicles with Active Driveline:** (see TOPlx Workshop Manual section 205-02: Rear Drive Axle/Differential - General Procedures - Differential Control Module - Vehicles With: Active Driveline - Removal and Installation).
- **Vehicles without Active Driveline:** (see TOPlx Workshop Manual section 205-02: Rear Drive Axle/Differential - General Procedures - Active On-Demand Coupling Module - Vehicles Without: Active Driveline - Removal and Installation).

2 Remove the rear left wheel arch liner (see TOPlx Workshop Manual section 501-08: Exterior Trim and Ornamentation - Rear Wheel Arch Liner).

3

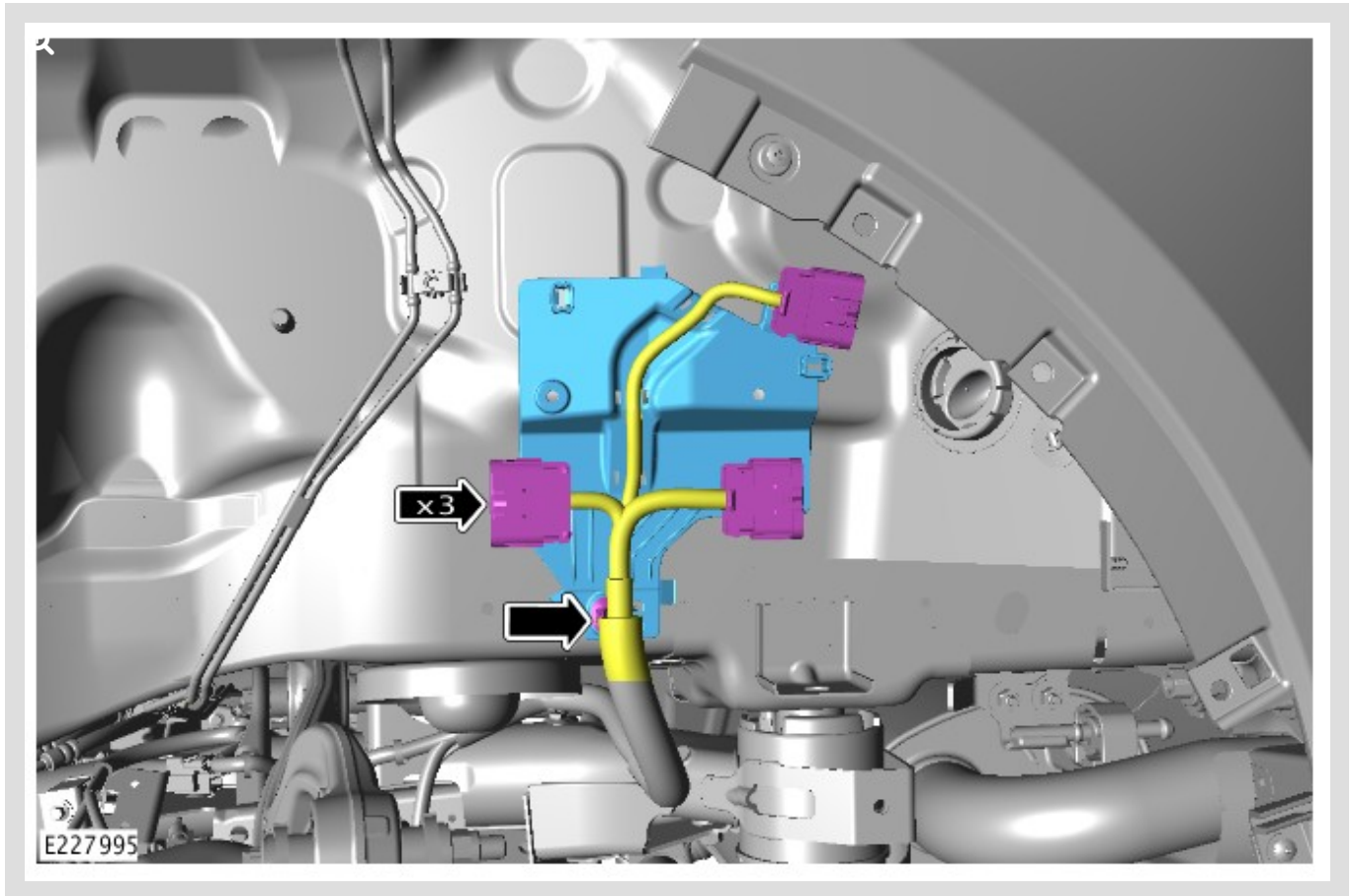


Disconnect the electrical connectors.

4

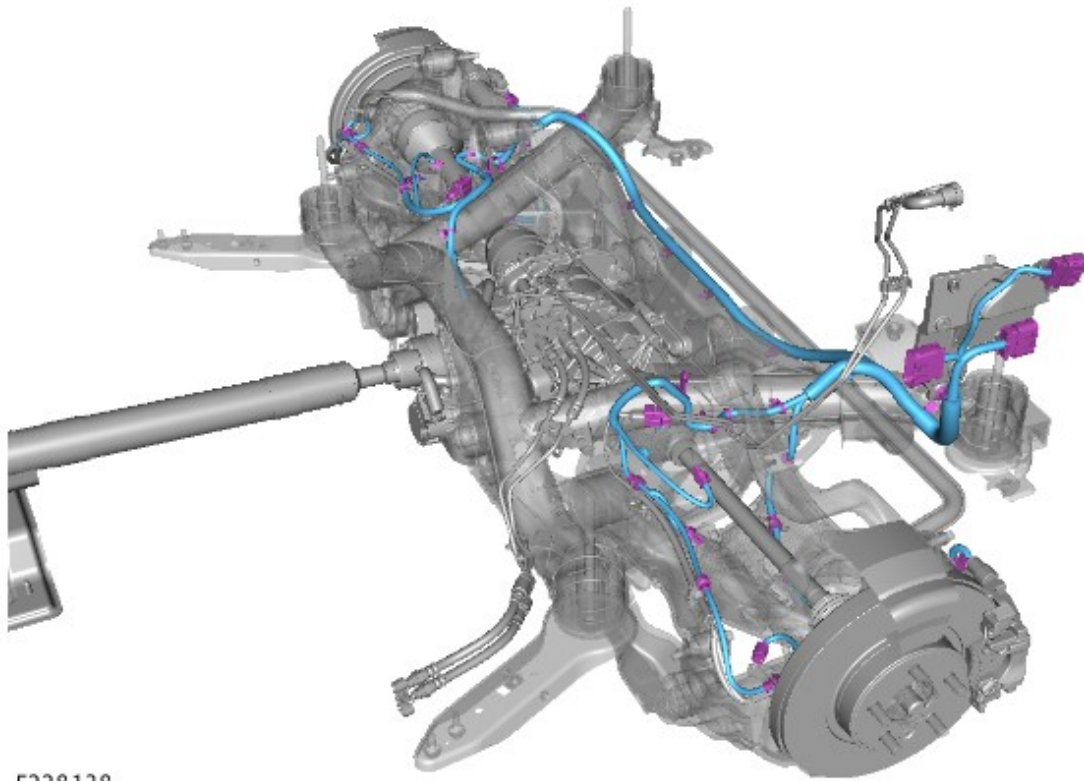
NOTE:

Use new cable ties during installation.



Remove the electrical connectors from the bracket.

5



E228138

Replace the RDCM harness.

6

Install the rear left wheel arch liner (see TOPIx Workshop Manual section 501-08: Exterior Trim and Ornamentation - Rear Wheel Arch Liner).