

"Tweeting" From the Rear End Area for Light-Duty Driving Between 60 - 80 km/h (37 - 49 mph) and From Approx. 100 km/h (62 mph): Replace Equipotential Bonding Line (Rear Power Electronics) On Rear Axle (SY 60/25)

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

Model Year: **As of 2025 up to 2026**

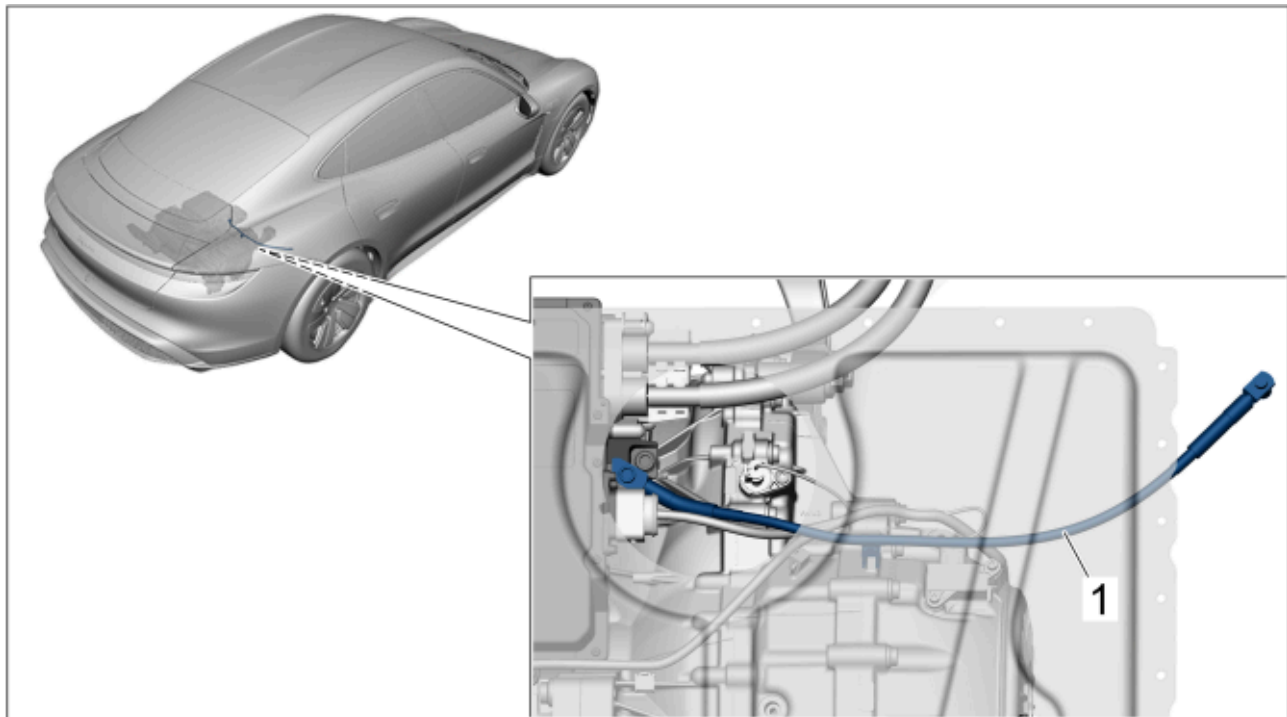
Concerns: **Equipotential bonding line (rear power electronics)**

Symptom: **The customer complains about a "tweeting" noise from the rear end area (rear right C-pillar) at speeds between 60 - 80 km/h (37 - 49 mph) and from approx. 100 km/h (62 mph) at slight acceleration/engine load.**

Cause: The equipotential bonding line (rear power electronics) on the rear axle can lead to the described symptom in rare cases due to its routing.

Remedial Action: If there is a customer complaint, replace the existing equipotential bonding line (rear power electronics) with an extended equipotential bonding line and install it in an S-shape form in the area of the service opening.

Installation
Position:



Installation position for equipotential bonding line (rear power electronics)

1 – Equipotential bonding line (previous installation situation)

Required parts

Parts Info:	Part No.	Designation – Includes	Number
	PAD971537	⇒ Equipotential bonding line for rear power electronics Includes: - Double tie-wrap	1 piece

Required tools

- Tools:
- **P90999 - PIWIS 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 (1.5-7.5 ftlb.), e.g. **V.A.G 1783 - torque wrench, 2-10 Nm (1.5-7.5 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.)**
 - **VAS 6883 - Insulated tool set**
 - **VAS 6558A - High-voltage test adapter**
 - **VAS 6558A/27 - Set of Kelvin clamps and test probes**
 - **VAS 6558A/52 - High-voltage measurement adapter**
 - **VAS 6410 - Contact surface cleaning set**
 - **VAS 6558/9-6A - High-voltage test adapter**
 - **T40262 - Locking cap**

Additional required tools required for carrying out this action, are to be determined independently in accordance with the valid Workshop Manual in PCSS.

Preparatory work

- Work Procedure:
- 1 Observe general warning notes for working on the high-voltage system.
⇒ *Workshop Manual '2X00INB5 General warning notes for working on the high-voltage system'*
 - 2 Deactivate high-voltage system.
⇒ *Workshop Manual '277583A2 Deactivating and activating high-voltage system'*
 - 3 Complete the documentation.
⇒ *Workshop Manual '2X00INJ7 Test log: Verifying absence of electric charge'*

- 4 Remove (center) luggage compartment trim panel luggage compartment cover.
⇒ *Workshop Manual '7006 19A4 Removing and installing trim panel for (centre) luggage compartment cover'*
- 5 Remove rear right wheel.
⇒ *Workshop Manual '4405 19A1 Removing and installing wheel'*

Replacing equipotential bonding line on rear axle



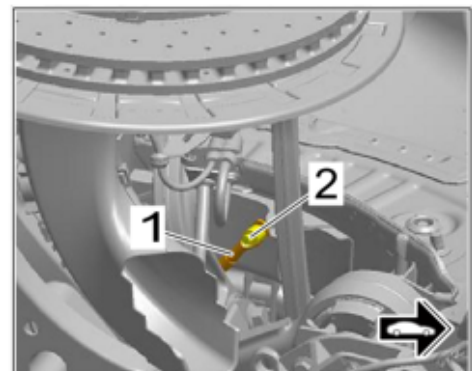
WARNING

Incorrect handling of high-voltage components

- Electric shock
 - Short circuit
 - Fire
 - Explosion
- ⇒ Only appropriately trained and authorized persons may work on high-voltage vehicles and components.
- ⇒ Required qualification: High voltage technician or high voltage expert.
- ⇒ Observe national requirements and legislation for this work.
- ⇒ Always use insulated tools, such as an insulated tool set when working on these parts.
- ⇒ Observe general warning notices for working on the high-voltage system. ⇒ *Workshop Manual '2X00INB5 General warning notices for working on the high-voltage system'*

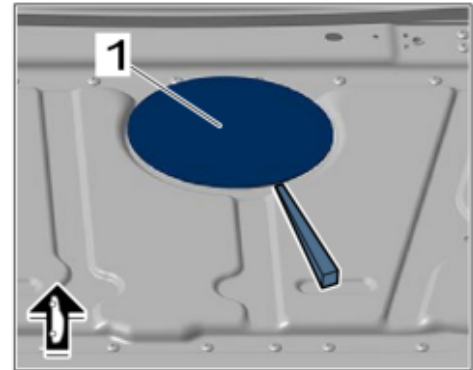
Work Procedure: 1 Loosen the existing equipotential bonding line ⇒ *Equipotential bonding line for wheel housing -1-* in the wheel housing area.

- 1.1 Unscrew nut ⇒ *Equipotential bonding line for wheel housing -2-*.
- 1.2 Loosen equipotential bonding line ⇒ *Equipotential bonding line for wheel housing -1-* from vehicle.



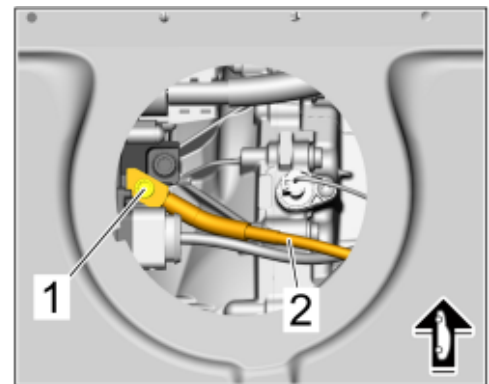
Equipotential bonding line for wheel housing

- 2 Lift and remove the body cover ⇒ *Removing body cover -1-* in the luggage compartment using a plastic wedge for access to the equipotential bonding line.



Removing body cover

- 3 Loosen and unscrew the screw ⇒ *Screw for equipotential bonding line -1-* of the equipotential bonding line ⇒ *Screw for equipotential bonding line -2-* on the rear power electronics.



Screw for equipotential bonding line

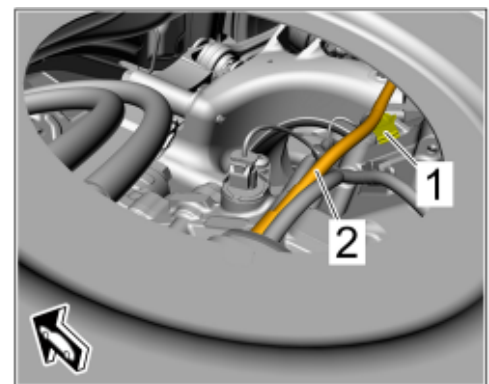
- 4 Loosen the edge clip ⇒ *Edge clip -1-* of the equipotential bonding line ⇒ *Edge clip -2-* from the transmission bell and discard the existing equipotential bonding line.



Information

In order to prevent noise complaints in the future, the new equipotential bonding line is fastened with a double tie-wrap and a special line installation, a so-called "S-shaped" line.

The position of the double tie-wrap differs depending on the vehicle equipment.

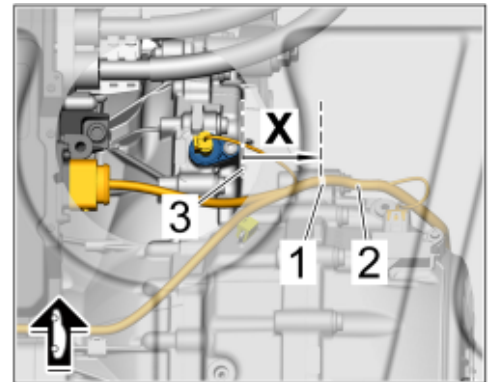


Edge clip

- Vehicles **without** Porsche Active Ride (M-No. 1P0) continue with: ⇒ *Technical Information '2X00INB5 Fasten equipotential bonding line to vehicles without Porsche Active Ride (M-no. 1P0)'*
- Vehicles **with** Porsche Active Ride (M-no. 1P8) continue with: ⇒ *Technical Information '2X00INB5 Fasten equipotential bonding line to vehicles with Porsche Active Ride (M-no. 1P8)'*

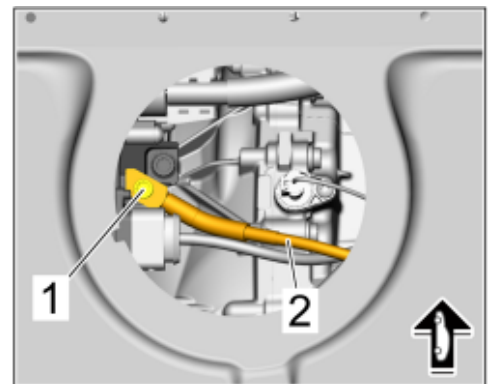
Fasten equipotential bonding line to vehicles without Porsche Active Ride (M-no. 1P0)

Work Procedure: 1 Attach marking \Rightarrow Marking of vehicles without ADR -1- to the **main bundle** of transmission pre-wiring \Rightarrow Marking of vehicles without ADR -2- at a distance of 80 mm \Rightarrow Marking of vehicles without ADR -X- to the edge of the speed sensor \Rightarrow Marking of vehicles without ADR -3-.



Marking of vehicles without ADR

- 2 Position **new** equipotential bonding line \Rightarrow Equipotential bonding line -2- through the service cover in the direction of the wheel housing on the right, screw in the screws \Rightarrow Equipotential bonding line -1- hand-tight.



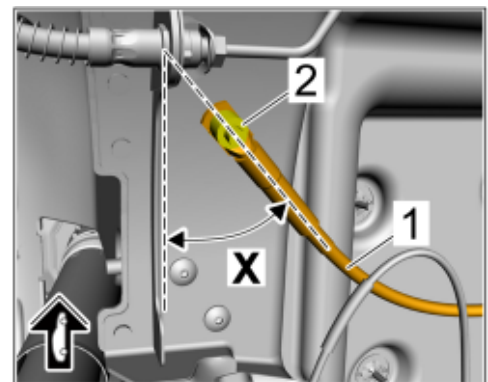
Equipotential bonding line

- 3 Fasten **new** equipotential bonding line \Rightarrow Equipotential bonding line for wheel housing -1- in the wheel housing area.

- 3.1 Position new equipotential bonding line \Rightarrow Equipotential bonding line for wheel housing -1- on the vehicle.

- 3.2 Align the equipotential bonding line \Rightarrow Equipotential bonding line for wheel housing -1- at an angle of approx. 45 degrees \Rightarrow Equipotential bonding line for wheel housing -X- against the direction of travel and \Rightarrow Equipotential bonding line for wheel housing -2- tighten the nut.

Tightening torque 8.5 Nm



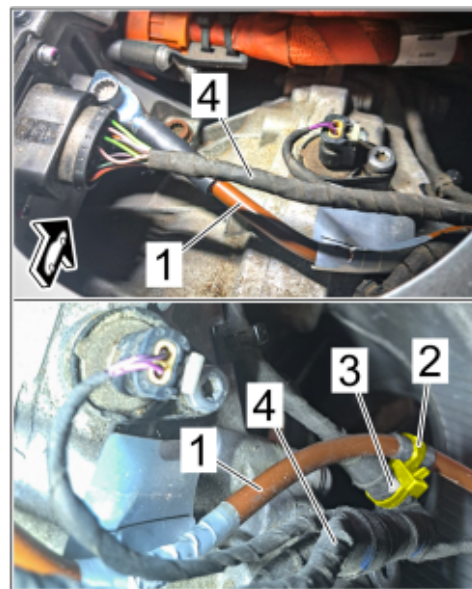
Equipotential bonding line for wheel housing

- 4 Install the equipotential bonding line in an \Rightarrow *Installation of the equipotential bonding line (example shows on vehicle with ADR) -1- S-shape form* and fasten it to the previously attached marking \Rightarrow *Installation of the equipotential bonding line (example shows on vehicle with ADR) -2-* on the \Rightarrow *Installation of the equipotential bonding line (example shows on vehicle with ADR) -3-* transmission pre-wiring main bundle using a double tie-wrap \Rightarrow *Installation of the equipotential bonding line (example shows on vehicle with ADR) -4-*.

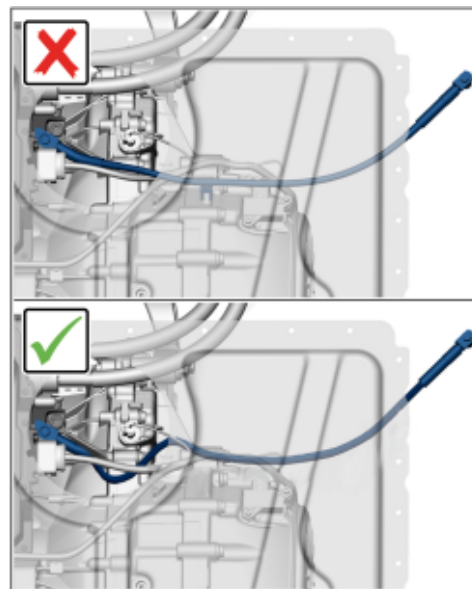


Information

Please note that the equipotential bonding line must be laid in an "S-shape" between the mounting of the power electronics and the double tie-wrap. \Rightarrow "S-shaped" equipotential bonding line

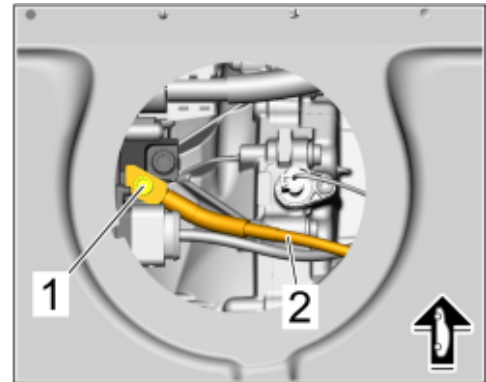


Installation of the equipotential bonding line
(example shows on vehicle with ADR)



"S-shaped" equipotential bonding line

- 5 Tighten the screw \Rightarrow Equipotential bonding line -1- securing the equipotential bonding line \Rightarrow Equipotential bonding line -2-.
Tightening torque 20 Nm
- 6 **Then** continue with: "Follow-up actions" \Rightarrow Technical Information '2X00INB5 Follow-up actions'



Equipotential bonding line

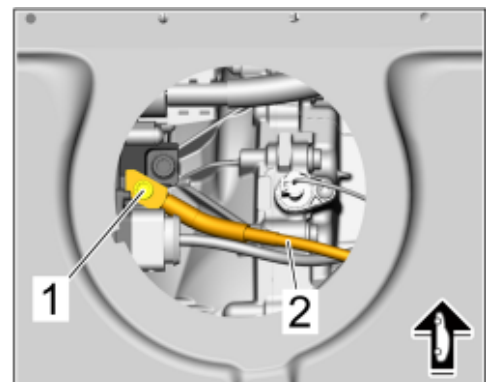
Fasten equipotential bonding line to vehicles with Porsche Active Ride (M-no. 1P8)

- Work Procedure: 1 Attach marking \Rightarrow Marking of vehicles with ADR -1- to transmission pre-wiring **line arm** \Rightarrow Marking of vehicles with ADR -2- at a distance of 80 mm \Rightarrow Marking of vehicles with ADR -X- to the edge of the speed sensor \Rightarrow Marking of vehicles with ADR -3-.



Marking of vehicles with ADR

- 2 Position **new** equipotential bonding line \Rightarrow Equipotential bonding line -2- through the service cover in the direction of the wheel housing on the right, screw in the screws \Rightarrow Equipotential bonding line -1- hand-tight.



Equipotential bonding line

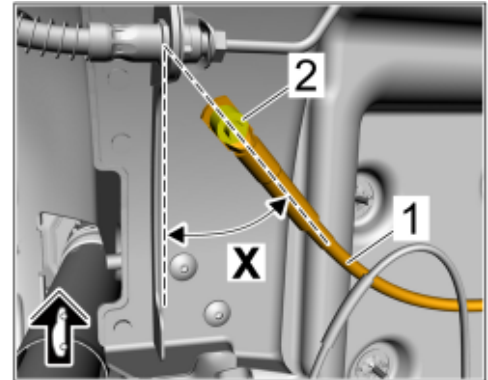
- 3 Fasten **new** equipotential bonding line \Rightarrow *New equipotential bonding line for wheel housing -1-* in the wheel housing area.

3.1 Position new equipotential bonding line \Rightarrow *New equipotential bonding line for wheel housing -1-* on the vehicle.

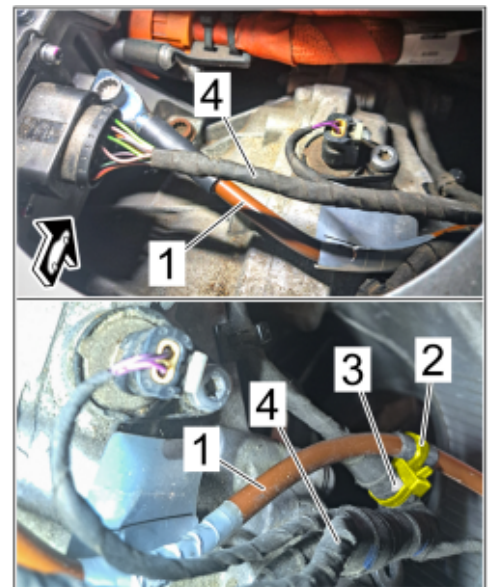
3.2 Align the equipotential bonding line \Rightarrow *New equipotential bonding line for wheel housing -1-* at an angle of approx. 45 degrees \Rightarrow *New equipotential bonding line for wheel housing -X-* against the direction of travel and \Rightarrow *New equipotential bonding line for wheel housing -2-* tighten the nut.

Tightening torque 8.5 Nm

- 4 Install the equipotential bonding line in an \Rightarrow *Installation of equipotential bonding line -1-S-shape form* and fasten it \Rightarrow *Installation of equipotential bonding line -2-* to the previously attached marking \Rightarrow *Installation of equipotential bonding line -3-* on the transmission pre-wiring line arm using a double tie-wrap \Rightarrow *Installation of equipotential bonding line -4-*.



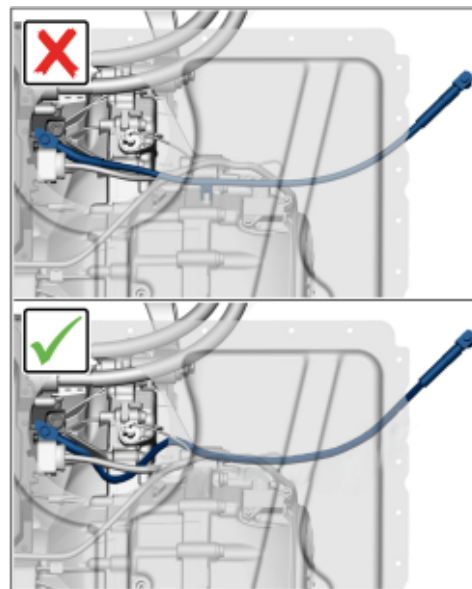
New equipotential bonding line for wheel housing



Installation of equipotential bonding line

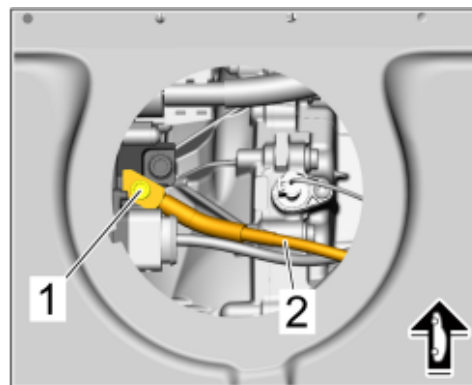
**Information**

Please note that the equipotential bonding line must be laid in an "S-shape" between the mounting of the power electronics and the double tie-wrap. ⇒ "S-shaped" equipotential bonding line



"S-shaped" equipotential bonding line

- 5 Tighten the screw ⇒ Equipotential bonding line -1- securing the equipotential bonding line ⇒ Equipotential bonding line -2-.
Tightening torque 20 Nm
- 6 **Then** continue with: "Follow-up actions" ⇒ Technical Information '2X00INB5 Follow-up actions'



Equipotential bonding line

Follow-up actions

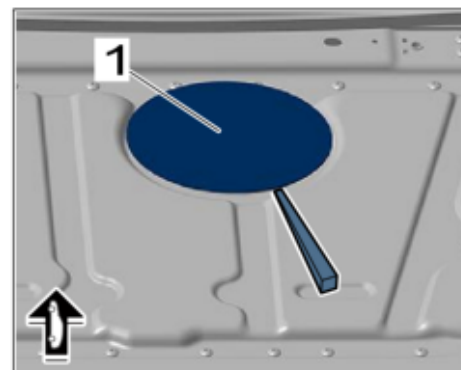
Work Procedure: 1 Position body cover ⇒ *Body cover -1-* in luggage compartment and press into place.

Make sure that the body cover ⇒ *Body cover -1-* engages in the body all the way around.

2 Install (center) luggage compartment trim panel (luggage compartment cover).
⇒ *Workshop Manual '7006 19A4 Removing and installing trim panel for (centre) luggage compartment cover'*

3 Install the rear right wheel.
⇒ *Workshop Manual '4405 19A1 Removing and installing wheel'*

4 Carry out equipotential bonding measurement and commissioning of high-voltage system.
⇒ *Workshop Manual '277583A2 Deactivating and activating high-voltage system'*



Body cover

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
42014940	Rework rear axle (replace equipotential bonding line)	

PCSS encryption:

Location (FES5)	27880	Equipotential bonding
Damage type (SA4)	1027	incorrect position/location

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