# Technical Service Bulletin

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|---|---|
| **Topic** | Sporadic All-Wheel Drive Warning \| Continental GT/GTC/Flying Spur \| 25-26MY |
| **Market area** | Bentley: worldwide (2WBE),China 796 VW Import Comp. Ltd (Vico), Beijing (6796) |
| **Brand** | Bentley |
| **Transaction No.** | 2077545/3 |
| **Level** | EH |
| **Status** | Released for publishing |
| **Release date** | Aug 11, 2025 |

**Diagnostic trouble codes**

| Diagnostic address | Diagnostic trouble code | Fault symptom | Storage state |
|---|---|---|---|
| 0032 - Differential lock electronics | C13AE1D: Actuator motor for differential lock current implausible | | static |
| 0032 - Differential lock electronics | C12BB1D: Control motor current implausible | | static |
| 0032 - Differential lock electronics | C12B5F0: Differential lock control module PSM / ESC activation by differential lock | | static |

**New customer code**

| Object of complaint | Complaint type | Position |
|---|---|---|
| chassis -> brakes, brake regulation -> electronic differential lock (EDS) | functionality -> operation sequence incorrect | |

# Vehicle data

## Continental GT/GTC and Flying Spur

**Sales types**

| Type | MY | Brand | Designation | Engine code | Gearbox code | Final drive code |
|---|---|---|---|---|---|---|
| Z23* | 2025 | E | | * | * | * |
| Z23* | 2026 | E | | * | * | * |
| Z24* | 2025 | E | | * | * | * |
| Z24* | 2026 | E | | * | * | * |
| Z32* | 2025 | E | | * | * | * |
| Z32* | 2026 | E | | * | * | * |

# Documents

| Document name |
| --- |
| master.xml |

**Technical Service Bulletin** Transaction No.: **2077545/3**

Sporadic All-Wheel Drive Warning | Continental GT/GTC/Flying Spur | 25-26MY Release date: Aug 11, 2025

## Condition

The message "Differential lock: fault. You may continue driving. Contact your Bentley retailer" is sporadically shown in the instrument cluster.

**Workshop Findings:**

The following DTC are logged in the Locking Electronics (address word 0032):

- **DTC C12BB1D**: Control motor current implausible

*and/or*

- **DTC C12B5F0:** Differential lock control module PSM / ESC activation by differential lock

*and/or*

- **C13AE1D**: Actuator motor for differential lock current implausible

*and/or*

- No communication with 0032.

## Technical Background

Potential issue with the T16-way connector at J647, causing intermittent faults in the differential lock system due to:

- Poor electrical contact
- Corroded or loose terminals
- Defective terminals.

## Production Solution

Not Applicable

## Service

**WARNING**

**Risk of Electric Shock: Disconnect the vehicle's 12V battery before working on electrical connectors to prevent accidental short circuits or injury.**

**CAUTION**

**Avoid Short Circuits: Do not bridge terminals or apply external voltage to control units as this can cause**

**irreversible damage.**

1. Inspect the T16-way connector at J647 for any defective terminals.

Figure 1

2. Perform a detailed check of the terminals within the T16-way connector at J647.

3. If any terminals are found to be defective as per the example in figure 1.

- Replace all all the defective individual terminals (part number P00293586).

*and/or*

- If required replace the entire 16-way connector at the J647 unit (part number (P00427711).

**NOTICE**

**Refer to the information below and ElsaPro Repair Group 97 Wiring harness repairs**

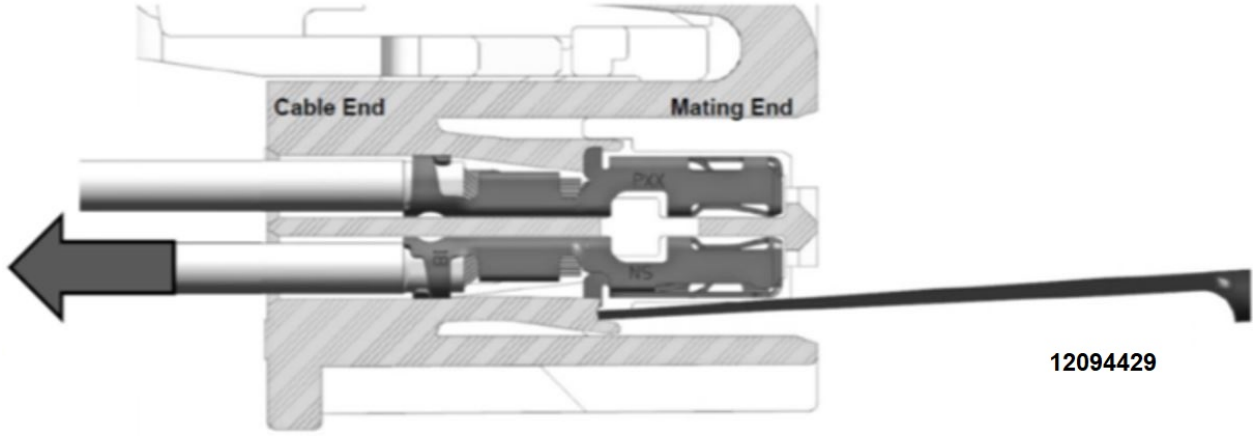


Figure 2

4. To remove a defective contact terminal, follow the steps below and see the diagram in figure 2:

- Locate the flex lock at the front end of the cavity.
- Insert **Tool 12094429** straight into the cavity.
- Deflect the flex lock to unseat the terminal.
- Gently pull on the cable to remove the female terminal from the receptacle.

5. To install a new contact terminal follow the steps below:

- Remove insulation from cable end (6-7mm) using cable stripper.
- Insert the stripped end of the cable into your chosen terminal/connector and ensure they're properly aligned.
- Position the cable and the connectors onto the jaws/dies of the crimping tool.
- Apply pressure on the handles of the crimping tool to crimp the connector to the cable conductor.
- A clicking sound may be hard, and the tool will automatically release it once a crimping cycle is done.
- Feed in the repaired cable terminal back into the connector. The contact must click in audibly.

6. Reinstall connector at the J647 unit. Clear all fault codes and perform a test drive to confirm resolution of the issue.

## Warranty

Warranty Type – 110 or 910

Damage Service Number – 97 09

Damage Code – 00 28

**Labour**

**Time to check central wiring harness terminals**

Labour Operation Code – 97 09 01 01

Time – 10 TU

**Time to repair central wiring harness terminals x 1**

Labour Operation Code – 97 09 41 51

Time – 30 TU

**Time to repair central wiring harness terminals x 3**

Labour Operation Code – 97 09 41 53

Time – 50 TU

**Road Test**

Labour operation code 01 21 00 01

Time – 30 TU

## Required Parts and Tools

| Part Number | Part Description | Quantity |
|---|---|---|
| P00293586 | Connector Terminal Contacts (Pack of 5) | As needed |
| See ETKA | Crimp connector tool (VAS 1978 B) | As needed |
| P00427711 | Housing connector for 16 way pin connector | As needed |

**NOTICE**

**Parts will only be supplied upon receipt of a full technical DISS query. After successful submission of the DISS query, it will be second levelled and the Senior Engineer will approve the order. Include a photograph of the VIN and reference the DISS query & TPI number when entering the order into the parts system.**