

## Technical Service Bulletin

|                        |  |
|------------------------|--|
| <b>Topic</b>           | 93 e-tron GT: stuck dog clutch with event memory entries P1D2E00, P1D4500, P1D2D00, P1C9800, P101E00 in 0001 |
| <b>Market area</b>     | United States 444 Volkswagen of America, Inc. (6444)   |
| <b>Brand</b>           | Audi   |
| <b>Transaction No.</b> | 2073490/4  |
| <b>Level</b>           | EH   |
| <b>Status</b>          | Released for publishing  |
| <b>Release date</b>    | Feb 5, 2025  |

### Diagnostic trouble codes

| Diagnostic address        | Diagnostic trouble code                                    | Fault symptom | Storage state |
|---------------------------|--|---------------|---------------|
| 0001 - Engine electronics | P1D4500: Disk clutch 2nd gear Time exceeded for opening    |               | Intermittent  |
| 0001 - Engine electronics | P1D4500: Disk clutch 2nd gear Time exceeded for opening    |               | static        |
| 0001 - Engine electronics | P1D2E00: Dog clutch Time exceeded for display              |               | static        |
| 0001 - Engine electronics | P1D2D00: Dog clutch Display attempt failed                 |               | Intermittent  |
| 0001 - Engine electronics | P1D2D00: Dog clutch Display attempt failed                 |               | static        |
| 0001 - Engine electronics | P1D2E00: Dog clutch Time exceeded for display              |               | Intermittent  |
| 0001 - Engine electronics | P1C9800: Electrical transmission actuator blocked          |               | Intermittent  |
| 0001 - Engine electronics | P1C9800: Electrical transmission actuator blocked          |               | static        |
| 0001 - Engine electronics | P101E00: Engine speed limitation due to excess temperature |               | Intermittent  |
| 0001 - Engine electronics | P101E00: Engine speed limitation due to excess temperature |               | static        |

### New customer code

| Object of complaint                              | Complaint type                              | Position |
|--|---|----------|
| engine -> engine operation -> electro-drive mode | functionality -> no function                |          |
| engine -> engine operation -> electro-drive mode | functionality -> does not switch on/connect |          |
| engine -> engine operation -> electro-drive mode | functionality -> switches on by itself      |          |
| transmission -> transmission control operation   | noises, vibrations                          |          |

| Object of complaint  | Complaint type              | Position |
|--|-----------------------------|----------|
| transmission -> transmission control operation                                       | functionality               |          |
| transmission -> power distribution, transmission of power                            | functionality               |          |
| entire vehicle -> assemblies -> engine assembly                                      | noises, vibrations -> noise |          |
| information, navigation, communication, entertainment -> indicator display symbols   | functionality               |          |
| information, navigation, communication, entertainment -> information display symbols | functionality               |          |
| information, navigation, communication, entertainment -> malfunction display symbols | functionality               |          |
| information, navigation, communication, entertainment -> warning display symbols     | functionality               |          |
| engine -> engine operation -> electro-drive mode                                     | noises, vibrations -> noise |          |
| engine -> engine operation -> electro-drive mode                                     | functionality -> misfire    |          |

## Vehicle data

### (RS) e-tron GT

#### Sales types

| Type | MY   | Brand | Designation | Engine code | Gearbox code | Final drive code |
|------|------|-------|-------------|-------------|--------------|------------------|
| F8*  | 2022 | A     |             | *           | *            | *                |
| F8*  | 2023 | A     |             | *           | *            | *                |
| F8*  | 2024 | A     |             | *           | *            | *                |
| F8*  | 2025 | A     |             | *           | *            | *                |

## Documents

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

**Technical Service Bulletin**

Transaction No.: **2073490/4**

93 e-tron GT: stuck dog clutch with event memory entries P1D2E00, P1D4500, P1D2D00, P1C9800, P101E00 in 0001

Release date: Feb 5, 2025

**Condition**

| REVISION HISTORY |            |  |
|------------------|------------|--|
| Revision         | Date       | Purpose  |
| 4                | -          | Revised <i>Warranty</i> (Updated Warranty Table)<br>Revised <i>Service</i> (Updated measure) |
| 3                | 10/28/2024 | Revised <i>Service</i> (Updated measure)   |
| 2                | 09/18/2024 | Revised <i>Service</i> (Updated measure)   |

**Customer states:**

- There is a Gearbox fault message shown in vehicle -> vehicle does not switch to second gear and max. speed is restricted to 74 mph.
- There are noises from the electric drive on the rear axle.
- The message “Gearbox malfunction: you can continue driving. Please contact workshop” or similar is displayed.

**Workshop findings:**

- The customer statement can be confirmed.

The following DTCs and symptom code(s) are stored (passive/intermittent or active/static) in *the Engine control module name -J623-*, (address word 0001):

- **P1D2E00**: Claw coupling Time exceeded for display Symptom: 43976 passive/intermittent or active/static.
- **P1D4500**: Disk clutch 2nd gear Time exceeded for opening Symptom: 44008 passive/intermittent or active/static.
- **P1D2D00**: Claw coupling Display attempt failed Symptom: 43979 passive/intermittent or active/static.



**DTC entries P1D2E00, P1D4500 and P1D2D00 must occur in combination and are logged as both passive/intermittent and active/static.**

**Technical Background**

The dog clutch is stuck radially.

**Production Solution**

Not applicable.

## Service

Check whether the dog clutch is still actively engaged, and the vehicle does not shift into 2nd gear. If this is the case, proceed as follows:

### WARNING

Accelerate the vehicle from stationary to a maximum speed of 31 mph and perform a load change by pressing the accelerator. In parallel, please have a second person use an ODIS tester to check whether the vehicle shifts into second gear. If this is the case, the dog clutch was released successfully. The procedure can be aborted or repeated at any time.

### WARNING

Information texts relating to the road test/adaptation drive as shown at the start of the road test on the corresponding program on the ODIS Tester:

- Using application programs when driving can be distracting.
- If the driver is distracted, this can lead to accidents and injuries.
- Observe the road traffic regulations. They have priority over any driving instructions.
- Always perform a road test with a second person who operates the test equipment.
- Make sure that the test equipment in the vehicle does not distract the driver.

### WARNING

Danger due to the transport of unsecured test equipment.

- If the test equipment is transported unsecured or in the range of airbags, this could cause injuries in certain maneuvers or in the event of an accident.
- Make sure the test equipment is secured properly.
- Do not transport test equipment in areas in which airbags inflate.
- If possible, use test equipment on the rear seat bench. If there is no rear seat bench, keep test equipment flat on the passenger's lap and operated exclusively by them. Move the passenger seat as far back as possible.

Work to perform for dog clutch (comprising of 2 sections):

#### **Section 1:**

Software update for vehicle with campaign 91VT.

#### **Section 2:**

Checking vehicle health based on event memory entries:

#### ***Procedure:***

A Stuck dog clutch is identified on the basis of the following DTC entries:

- **P1D2E00:** Claw coupling Time exceeded for display Symptom: 43976 passive/intermittent or active/static.

- **P1D4500:** Disk clutch 2nd gear Time exceeded for opening Symptom: 44008 passive/intermittent or active/static.
- **P1D2D00:** Claw coupling Display attempt failed Symptom: 43979 passive/intermittent or active/static.

Check the frequency counter under “Standard ambient conditions” for the event memory entries given above.

→ If one of the DTC entries has a frequency count of 5 or more:

- Ask the customer whether the vehicle was parked on a slope before the fault occurred.
- If the vehicle is regularly parked on a slope, explain the recommendation to the customer (see information for customer).

**Perform Guided Fault Finding for the above DTC entries.**



**Information for the customer:**

**Parking the vehicle on a slope:**

**Activate the electromechanical parking brake before releasing the foot brake and leaving the vehicle (doing so blocks the wheels on the rear axle. The parking lock function is activated directly after the rear wheels have been blocked by the parking brake.**

## Warranty

|                          |   |           |                                       |
|--------------------------|---|-----------|---------------------------------------|
| <b>Claim Type:</b>       | <ul style="list-style-type: none"> <li>• If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.</li> </ul> |           |                                       |
| <b>Service Number:</b>   | 9340  |           |                                       |
| <b>Damage Code:</b>      | 0010  |           |                                       |
| <b>Labor Operations:</b> | Check Transmission Unit   | 3435 0199 | 70 TU                                 |
|                          | GFF   | 0150 0060 | Labor according to the diagnostic log |
|                          | Test drive before the service procedure   | 0121 0002 | 10 TU                                 |
|                          | Test drive after the service procedure  | 0121 0004 | 10 TU                                 |
| <b>Claim Comment:</b>    | As per TSB 2073490/4  |           |                                       |

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

## Additional Information

All parts and service references provided in this TSB (**2073490**) are subject to change and/or removal.

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