

**Transmission Symptom - Yellow Warning Message, Jammed Claw Clutch, P1D2E00, 00ABC8 (SY 86/20)**

**Change overview:**

| Release | Date       | Change                                                                        |
|---------|------------|-------------------------------------------------------------------------------|
| 0       | 06/29/2020 | ▪ First publication                                                           |
| 1       | 07/20/2020 | ▪ Update of Work Procedure                                                    |
| 2       | 02/09/2024 | ▪ Document completely revised<br>▪ Affected order types and model years added |
| 3       | 07/26/2024 | ▪ Affected order types and model years added<br>▪ Update of Labor operation   |
| 4       | 08/29/2025 | ▪ Update to Work Procedure section steps 4.2 to 4.4                           |

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

Model Year: **As of 2020**

Concerns: **Automatic transmission**

Symptom: **The customer complains about an active yellow warning message "Transmission faulty - driving permitted".**

The vehicle no longer changes into 2nd gear, but can still be moved forwards and backwards. From a speed of 50 km/h (30 mph), the warning message "Transmission faulty - reduced driving possible" appears on the instrument cluster.

The following fault memory entry is stored in the fault memory of the DME control unit:

- P1D2E00 - Shift monitoring, claw clutch, timeout during disengagement (00ABC8)

Cause: The symptom is caused by radial jamming of the claw clutch (claw clip) in the automatic transmission.

Remedial Action: If a complaint is made, perform an actuator test and, if necessary, release the jammed claw clutch with a manual torque load.

**Required tools**

- Tools:
- **P90999 - PIWIS Tester 4**
  - Battery charger with a current rating of **at least 90 A**, e.g., **VAS 5908 90-A battery charger**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging vehicle electrical system and battery'*

## Review claw clutch clamps



### Information

Always make sure that the power supply on the vehicle is not interrupted while working with the PIWIS Tester. A battery charger with a current rating of at least 90 A must be connected to the vehicle battery.

The PIWIS Tester instructions take precedence and in the event of a discrepancy these are the instructions that must be followed. Deviations may occur with later software releases.

The procedure described here has been structured in general terms; different text or additions may appear in the PIWIS Tester.

- Work Procedure:
- 1 Connect and switch on the battery charger.
  - 2 Place original remote control in emergency start tray.



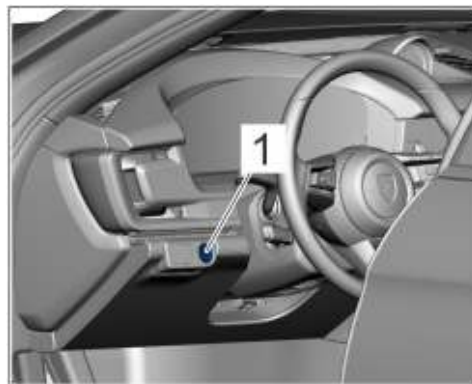
### Information

Switch on ignition: Press the Start-Engine-Stop ⇒ Start-Engine-Stop button -1- button without stepping on the brake pedal.

- 3 Connect PIWIS Tester to the vehicle and start. Switch on the ignition.
- 4 Carry out actuator test for servo motor (clutches).
  - 4.1 Select the DME control unit in the control unit selection screen (⇒ "Overview" menu).
  - 4.2 Select the "Drive links" menu.
  - 4.3 Select "All".
  - 4.4 Select sequence for " Servo motor (clutches) - see "F1 Help".
  - 4.5 Observe preconditions for actuator testing under **F1** .
  - 4.6 Start the check from "Shift\_Positon" by selecting value "2nd gear" and confirm with **F8** .



Place remote control in emergency start tray



Start-Engine-Stop button

| Assessment |                                                                | Action                                                                                                                                                                          |
|------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (✓)        | Check is performed and the 2nd gear is engaged.                | <b>Claw clutch not jammed.</b><br><br>Delete <b>passive</b> fault "P1D2E00 - Shift monitoring, claw clutch, timeout during installation (00ABC8)".<br><br>Continue with Step 5. |
| (✗)        | Check is <b>not</b> performed and the 2nd gear is not engaged. | <b>Release jammed claw clutch manually.</b><br><br>Continue to ⇒ <i>Technical Information '270689 manually release the jammed clutch'</i> .                                     |

- 5 Erase fault memory.
- 6 Switch off ignition. Disconnect the PIWIS Tester from the vehicle.

### Manually release the jammed clutch



#### Information

- A jammed claw clutch can be released by a high torque drive in the transmission.
  - High torques can only be transferred on a dry and paved road.
  - The torque load can be achieved by accelerating several times with different loads (pedal positions) and driving modes (no high speeds are necessary).
- 1 Have a second person to operate the PIWIS Tester during the test drive.
  - 2 Review transmission position while driving.
    - 2.1 Select the DME control unit in the control unit selection screen (⇒ "Overview" menu).
    - 2.2 Select the "Actual values input signals" menu.
    - 2.3 Select the "G\_Transmission" function and press **F12** ('Next') to confirm your selection.
    - 2.4 Select actual value "G030\_Transmission position, actual position from sensor value" and confirm with **F12** (Next).



#### Information

Under 'Value' either "R / 1st gear" or "2nd gear" is displayed. If under 'Value' "2nd gear" is displayed, the claw clutch has been freed.

- 2.5 Load vehicle at a suitable location with high torque requirements, changing between the different loads and checking whether the transmission is shifting into second gear.

**Information**

In rare cases, it may be necessary to carry out a Launch Control start (racing start) several times in Sport+ mode by pressing the accelerator pedal several times after starting up.

It is mandatory to observe the respectively valid statutory regulations (road traffic regulations). Please also see the ⇒ Owner's Manual in the chapter "Launch Control".

| Assessment |                                                                | Action                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (✓)        | The automatic transmission changes to 2nd gear.                | <b>Jammed claw clutch is released.</b> <ul style="list-style-type: none"> <li>Delete passive fault "P1D2E00 - Shift monitoring, claw clutch, timeout during installation (00ABC8)".</li> <li>Switch off ignition.</li> <li>Disconnect the PIWIS Tester from the vehicle.</li> </ul> |
| (✗)        | The automatic transmission does <b>not</b> change to 2nd gear. | <b>Jammed claw clutch cannot be released.</b><br>Replace the automatic transmission.<br>For procedure, see:<br>⇒ <i>Workshop Manual '373527 Removing and mounting automatic transmission'</i>                                                                                       |

**Labor position and PCSS encryption**

Labor positions:

| APOS     | Labor operation                          | I No. |
|----------|------------------------------------------|-------|
| 38380100 | Check the C1 clutch                      |       |
| 38384100 | Repair clutch C1                         |       |
| 37355501 | Check and replace automatic transmission |       |
| 37355502 | Check and replace automatic transmission |       |

PCSS encryption:

|                   |       |                     |
|-------------------|-------|---------------------|
| Location (FES5)   | 38380 | Clutch 1            |
| Damage type (SA4) | 1712  | sticks / gets stuck |

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