

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

Change overview:

Release	Date	Change
0	6/29/2020	<ul style="list-style-type: none"> <li>• First publication</li> </ul>
1	7/20/2020	<ul style="list-style-type: none"> <li>• Update of Work Procedure</li> </ul>
2	2/9/2024	<ul style="list-style-type: none"> <li>• Document completely revised</li> <li>• Affected order types and model years added</li> </ul>
3	7/26/2024	<ul style="list-style-type: none"> <li>• Affected order types and model years added</li> <li>• Update of Labor operation</li> </ul>

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.

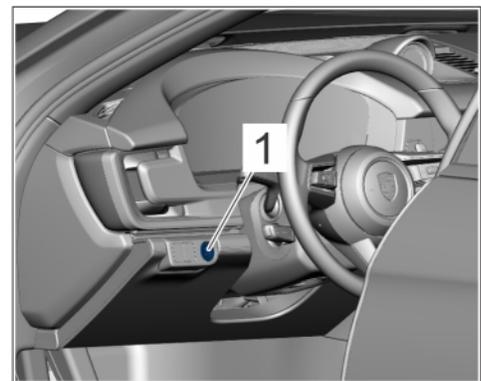
- Work Procedure: 1 Connect and switch on the battery charger.
- 2 Place original remote control in emergency start tray.

**Information**

*Place remote control in emergency start tray*

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 "Actuator tests" menu.
  - 4.3 Select the 'Campaign' function and press •F12" ('Next') to confirm your selection.
  - 4.4 Select sequence for " Servo motor (clutches) - select "F1 Help" and confirm with •F12" (Next).
  - 4.5 Observe preconditions for actuator testing under •F1" .



*Start-Engine-Stop button*

4.6 Start the check from "Shift\_Positon" by selecting value "2nd gear" and confirm with •F8" .

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

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>
(X)	The automatic transmission does <b>not</b> change to 2nd gear.	<b>Jammed claw clutch cannot be released.</b> Replace the automatic transmission. For procedure, see: ⇒ <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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