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## Fault message in instrument cluster, park pawl

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Version	2
Design group	26.00 General
Date	08-28-2014
Validity	MODEL 242.890 (B-Class electric drive)
Reason for change	Questions added to remedy
Reason for block	

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**Complaint:**

A 'Visit workshop without changing gear' message is shown on the instrument cluster.

An ignition change can reset this message. The display message is not shown again.

**Cause:**

Frequent activation of the drive-CAN means that the position of the park pawl has to undergo teach in again. The PT-CU control unit (N127) detects a mistake and shows the following fault code:

P141F4B (The control unit 'Park pawl' has malfunction. There is a fault due to overtemperature.)

The fault can be logged on its own or with one of the following fault codes in the PTCU control unit (N127):

P060C64 (There is an internal control unit fault in the central processing unit. There is an implausible signal.)

and/or

In the ESP control unit for the regenerative brake system (N30/4):

C073D00 (The CAN message from control unit 'A80 (Intelligent servo module for DIRECT SELECT)' is faulty.)

Note: The first fault entry P141F4B can also be filed without a customer complaint. If fault code P060C64 or C073D00 occur unrelated to fault code P141F4B, then this should be separately monitored.

**Remedy:**

The following information must be obtained from the customer beforehand:

- 1) In which state was the vehicle when the message in the instrument cluster appeared for the first time (when starting the engine or while driving)?
- 2) What actions (e.g. radio on while stationary) were performed in the vehicle immediately beforehand?
- 3) What actions were performed in the vehicle in the preceding hours (e.g. charging, operation of the vehicle)?
- 4) How long was the message active in the instrument cluster?

5) Did the fault message disappear after an ignition cycle?

6) Were there any irregularities in the vehicle's behavior?

Parts do not need to be replaced and no further test work conducted. A PTSS case should also be created and the answers to the questions to the customer attached.

Work is currently underway on an improvement measure.

Before the vehicle is handed over to the customer, it should be left for as long as possible with the ignition switched on (circuit 15, key position 2), but for at least 60 minutes. During this process the electrical accessories (e.g. lights, radio) must be switched off.

The customer should also be notified of the following procedures:

1) The probability of occurrence of the fault message can be minimized as follows:

Start ignition (key position 2) and wait a few seconds before starting the engine (key position 3) and leaving transmission mode "P".

2) If the message in the instrument cluster reappears, circuit 15 (key position 2) must be left switched on for approx. 10 min and then a status change (circuit 15, key position 2) must be performed.

If, after this procedure, the fault message no longer appears in the instrument cluster, the park pawl function is then fully operational at all times.

Symptoms
Power transmission / Automatic transmission / Automatic transmission - function / General

Control unit/fault code		
Control unit	Fault code	Fault text
PTCU - Drivetrain (N127) (CEPC242)	P141F4B	The control unit 'Park pawl' has a malfunction. There is a fault due to overtemperature.
ESP® - Regenerative braking system (N30/4) (RBS242)	C073D00	The CAN message from control unit 'A80 (Intelligent servo module for DIRECT SELECT)' is faulty.
PTCU - Drivetrain (N127) (CEPC242)	P060C64	There is an internal control unit fault in the central processing unit. There is an implausible signal.

Work units				
Op. no.	Operation text	Time	Damage code	Note
			04005 90	

Validity		
Vehicle	Engine	Transmission

XENTRY

242.890	*	*
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