

177 118 247 with 724.0 7FDCT - Transmission in limp-home mode, fault message in IC "Gear Change to R Not Possible"! P092500

Topic number	LI27.60-P-071321
Version	6
Function group	27.60 - Gearshift, control
Date	8/7/25
Validity	BR 177, 118 and 247 with M260 engine and 724.0 (7FDCT) transmission. (Except model designations 118.351, 118.651, 177.051, 177.151, 177.951)
Reason for change	Updated Remedy to include information for TIPS case. Edited title, added more info to validity

Complaint

Transmission limp-home mode with fault message in IC "Gear Change to R Not Possible", the even gears are locked. The concern of transmission limp-home mode disappears after the ignition is switched off and on again.

P092500 The shift valve of the hollow shaft has a malfunction. _ is present in the DKG Control Unit (Y3/14n4), and the extended freeze frame data shows hex code 25 F2 (see attachments for reference)

Cause

Hydraulic fault caused by the transmission software. The engagement of 2nd gear by preselection after 4-3 downshift does not function due to activation fault.

Attachments	
File	Description
Erweiterte_FU_Daten_P092500.pdf	Extended fault freeze frame data
Program stand 18b example.PNG	Checking Software Level in EEPROM txt file

6, 20858, 20859, 20862, 20863, 20866, 20867, 20872, 20873	
VIN XD	: WDD3G4EB8LW041591
BM XD	: 177.144
Motor XD	: 260.920
Kilometerstand XD	: 23217.3km
Sparte	: PKW
Comment	: Standard
Vorgang	: ---
MBNUMBER	: 0054463710
DIOVAR	: 266
DIOVAR_HEX	: 00010A
DIAGVERSION	: TCM7FDCT_DCT_App1_00010Ah
HW	: 13/36 000
SW	: 19/46 000
SUPPLIER	: Conti Temic
BOOT_SOFTWARE_SWVERSION	: 12/45 001
MANUFACTURING_DATE	: NO_VALUE
ECU_NAME	: TCM7FDCT
CBF_VERSION	: NO_VALUE
SMRD_VERSION	: 1.4.11
PROTOCOL	: UDS_CAN_D
Hardware-Sachnummer	: 0054463710
Software-Sachnummer0	: 0009028342
Read_Data_Variant_Version	: at01
HardwareSupplier	: Conti Temic
Logical_Block_0_Part_Number	: 0009028342
Read_Data_Version	: _01sn00002
EROTAN	: GS0055
CVN_1	: 0x25 0x59 0x9B 0xDC
Read_Program_Version	: d1g218ba20tx
Read_EHS_number	: 2463704802
Hardware_Part_Number	: 0054463710
Calibration_Identification	: 0009028342900001
SW-Version.Jahr	: 19

Remedy

Check the transmission software level and follow the steps below:

You can use the EEPROM as txt file for Program version (see attachments for reference)

18a software:

Flash transmission control unit Y3/14nY with latest software using Xentry, version 09/2021 or 12/2021 and all add-ons (except model designations 118.351, 118.651, 177.051, 177.151, 177.951); delete fault memory.

18b software:

Flash transmission control unit Y3/14nY with latest software using Xentry, version 12/2023 and all add-ons

If there is no software available for the DKG Control Unit, or the concern is still present after the software update:

Please submit a TIPS case to the Powertrain Inbox and include the following information:

- Initial Quick Test w/ Freeze Frame Data
- DKG Control Unit Log
- Guided Test result for P092500
- Initial EEPROM (before performing any adaptations)
- Current EEPROM data

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms
Power transmission > Automatic transmission > Function > Limp-home mode
Power transmission > Automatic transmission > Function > Shifting is not performed or is delayed
Power transmission > Automatic transmission > Drive position selection > Function > Gear cannot be engaged
Power transmission > Automatic transmission > Drive position selection > Function > Malfunction

Control unit/fault code	
Control unit	Fault text
Y3/14 - Transmission control for 7-speed dual-clutch transmission (DKG) (TCM7FDCT)	P092500 - The shift valve of the hollow shaft has a malfunction. _
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Y3/14 - Transmission control for 7-speed dual-clutch transmission (DKG) (TCM7FDCT)	P092500 - The shift valve of the hollow shaft has a malfunction. _

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note