

Shifting quality problems on TRANSMISSION 725.1 (9G TRONIC FACELIFT)

Topic number	LI27.00-P-073532
Version	1
Function group	27.00 - General
Date	8/25/21
Validity	MODEL 206/213/238/257/223 with TRANSMISSION 725.1 (9G TRONIC FACELIFT)
Reason for change	

Complaint

If TRANSMISSION 725.1 (9G TRONIC FACELIFT) exhibits any "shift quality" concerns, various optimized diagnosis procedures are available to you for selected vehicle model series with STAR3 architecture,

Cause

Various

Remedy

Despite this, the shift in question should be verified with XENTRY in the presence of the customer as a preparatory measure.

In event of shift quality concerns, before the start of any repair or standard adaptation, the latest quick test, the transmission control unit log and the EEPROM data should be read out as a txt file (*.txt). The EEPROM data must be stored separately on a data medium (USB stick) as it can no longer be reproduced after adaptation has been performed.

Before creating a PTSS case always check that the engine and transmission control unit as well as the dependent powertrain control units (e.g. CPC3, DCDC48EVO1, ISG48V2, LIB48_223) have the latest software release, and update them, if necessary, then perform another test drive.

Note: The latest version of the XENTRY (including all available add-ons) must be used for programming the transmission and engine control unit. Only then can it be ensured that the very latest version of each software is installed.

If the concern still persists, the creation of a CAN-FD measurement (successor to SD-SCAN for vehicles with STAR3) may be necessary, when requested.

For this, the parts specified in the parts scope and the corresponding XENTRY versions / add-ons are required:

- W000589002100 Test box 1

XENTRY TIPS

- W223589016300 Adapter cable for vehicles with STAR3

- XENTRY 03/2021 with add-on 19516
- XENTRY 06/2021 with add-on 19604
- XENTRY 09/2021

Note:

- For XENTRY 03/2021 and XENTRY 06/2021, the corresponding K matrix must be requested per PTSS case to create a CAN-FD.
- As from XENTRY 09/2021, the corresponding K matrix is integrated into XENTRY.

Symptoms

Power transmission > Automatic transmission > Function > Engaging process

Power transmission > Automatic transmission > Function > Shifts

Power transmission > Automatic transmission > Function > Slips

Power transmission > Automatic transmission > Function > Shifting is rough

Power transmission > Automatic transmission > Function > Shifting is not performed or is delayed

Power transmission > Automatic transmission > Function > Poor shift quality

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
W000589002100			Test box	1	WS00.00-P0034B	X
W223589016300			Adapter cable for vehicles with STAR3	1	WS54.00-P-0089B valid for STAR3	X

WIS-References

Document number	Title	Note
WS00.00-P-0034B	000 589 00 21 00 Test box	-
WS00.00-P0034B	223 589 01 63 00 Adapter cable	Valid for STAR3

Control unit/fault code

Control unit	Fault text
N15/15n1 - Transmission control for 9-speed transmission (VGS)	

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note