

Delayed start-off from standstill and/or engagement jolt when coming out of the power-free state, or jolt when brakes are released (switch-on process)

Topic number	LI27.19-P-056898
Version	4
Design group	27.19 Transmission - electrical system
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Validity	<p>TRANSMISSION 722.903 with ENGINE 642.852 in MODEL 212.023/026/223/226</p> <p>TRANSMISSION 722.908 with ENGINE 651.961 in MODEL 221.003/103</p> <p>TRANSMISSION 722.965 with ENGINE 651.912 in MODEL 204.082/084/282/284/904/982/984/997</p> <p>TRANSMISSION 722.965 with ENGINE 651.924 in MODEL 204.082/097/282</p> <p>TRANSMISSION 722.966 with ENGINE 642.835 in MODEL 204.993</p> <p>TRANSMISSION 722.966 with ENGINE 642.852 in MODEL 212.094/294</p> <p>TRANSMISSION 722.966 with ENGINE 642.854 in MODEL 218.393</p> <p>TRANSMISSION 722.966 with ENGINE 642.858 in MODEL 212.093/094/293/294/394</p> <p>TRANSMISSION 722.966 with ENGINE 642.858 in MODEL 218.393</p> <p>TRANSMISSION 722.966 with ENGINE 642.868 in MODEL 221.083</p> <p>TRANSMISSION 722.967 with ENGINE 278.922 in MODEL 212.091/291 with CODE 803</p> <p>TRANSMISSION 722.967 with ENGINE 278.922 in MODEL 218.391/991</p> <p>TRANSMISSION 722.968 with ENGINE 274.920 in MODEL 204.937</p>
Reason for change	Added Star TekInfo Reference video

Complaint:

Delayed start-off from standstill and/or engagement jolt when coming out of the power-free state, or jolt when brakes are released (switch-on process)

Cause:

Power-free in gear range D (KID) function

Function sequence inside the transmission when KID is active: The VGS reduces the flow at the control solenoid valve of brake B2 (VGS) until the shift pressure is reduced via the regulating valve B2 and BR to the level of a backpressure spring, changing the multidisk brake B2 to a state of controlled slip. This leads to a reduction in the transmission output torque while the vehicle is stationary and reduces fuel consumption.

Additional information describing this function can be found in Star TekInfo under Star Intro by searching 'KID'

Remedy:

Please perform the following activity for a "delayed start-off" complaint:

Install software with Xentry and add-on 1579 for DVD 07/2010 or higher.

- MODEL 207 with OM642: Deactivated in transmission mode S and optimized in E
- MODEL 212 with OM642: Deactivated in transmission mode S and optimized in E
- MODEL 212 with OM642 and 4MATIC: Optimized in transmission modes S and E

Please perform the following activity for the "Jolting when brake disengaged (gear engagement process)" complaint (MODEL X204 with OM651 only):

- Install software with Xentry and add-on 1416 for DVD 01/2010 or add-on 1417 for DVD 03/2010 or higher.

All other MODELS not explicitly listed here but under the validity of this document are already equipped with the optimized software.

Please perform the following activity for a "engagement lurch" complaint: Do not replace any parts.

Check via actual values in Xentry whether the complaint occurs with KID activation/deactivation. KID activation is visible in VGS -> Actual Values -> Gear Change: At standstill 'Actual Gear' and 'Target Gear' will differ.

- If there is no problem with the KID function, please create a PTSS case.
- If there is a problem with the KID function, please proceed as follows: Grease the sliding piece of the propeller shaft. To do so, detach the shaft, clean the gearing and apply a very generous coating of grease to it. Make sure that the seals are greased also. If it is only applied to the splines, the sealing will simply "wipe off" a major portion of the grease.

Symptoms
Power transmission / Automatic transmission / Automatic transmission - function / Poor start-off performance
Power transmission / Automatic transmission / Automatic transmission - function / Shifting is delayed
Power transmission / Automatic transmission / Automatic transmission - function / Shifting is not performed or is delayed
Power transmission / Automatic transmission / Automatic transmission - function / Poor shift quality