



Dual-Clutch Transmission (DCT) Driving Characteristics

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Version	1
Function group	27.10 - Complete transmission
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Reason for change	

Complaint

Intermittent shift feel or thud/clunk noise perceived, such as a brief jerk or transmission reaction during certain driving situations. May be most noticeable when transitioning from a coasting condition to accelerator pedal application.

May occur in all drive modes.

Cause

Dual-clutch transmissions (DCT) inherently exhibit more dynamic shifting behavior compared to other types of transmissions. This is due to the use of physical clutches for starting and gear changes. In certain situations, dynamic driving behavior can lead to a slight jerk sensation which is a normal technical characteristic of the transmission.



A typical example is a "Change of Mind" situation:

- The customer is coasting towards a red traffic light.
- The traffic light turns green while the vehicle is still coasting.
- The customer then presses the accelerator pedal.

In these situations, a slight jerk may occur briefly because the transmission must quickly engage the appropriate gear and control the clutches accordingly. Since shift forks are responsible for engaging the gears during shifting, a slight shifting noise may also be noticeable.

Please note driving programs **S**, **S+**, and **M** are designed to provide sportier vehicle behavior and are not optimized primarily for maximum comfort, so this operation may be more audible.

Remedy



Verify the customer's concern and confirm proper transmission operation. If no faults or abnormal operating conditions are identified by IPR (Intelligent Predictive Repair), no hardware replacement is necessary.

Inform the customer that the transmission has been designed to provide direct gear engagement and responsive vehicle performance. Under certain operating conditions, brief shift sensations may be perceptible and are consistent with the operating characteristics of the dual-clutch transmission

Disclaimer

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Symptoms

Power transmission > Noises > Throttle lift-off clunking noise

Power transmission > Automatic transmission > Function > Shifting is rough

Power transmission > Automatic transmission > Noises > Noise
