



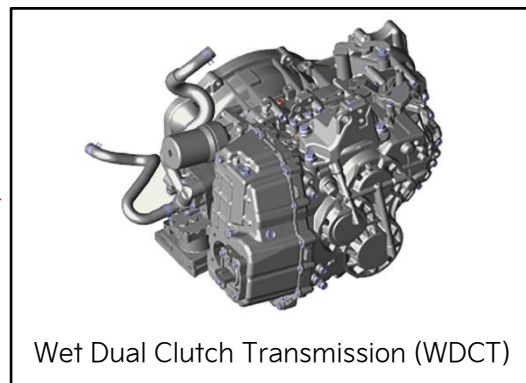
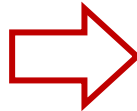
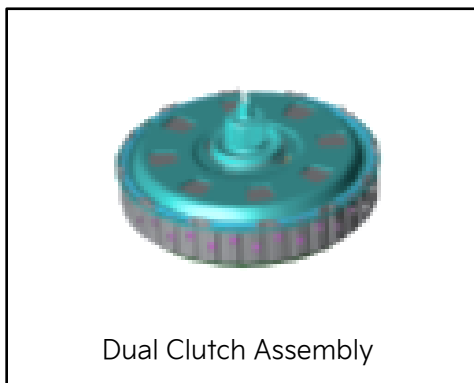
GROUP	MODEL
TRA	2021MY~ K5 GT (DL3a), Sorento (MQ4a) w/2.5L T-GDI
NUMBER	DATE
100	January 2022

TECHNICAL SERVICE BULLETIN

SUBJECT: **8 SPEED WET DUAL CLUTCH TRANSMISSION (WDCT)
JUDDER EVALUATION**

This bulletin provides information to inspect for judder in the 8-speed Wet Dual Clutch Transmission (WDCT) and possibly replace the Dual Clutch Assembly on some 2021MY~ K5 GT (DL3a) vehicles produced from November 16, 2020 and later and Sorento EX trim and above (MQ4a) non-hybrid vehicles, produced from October 26, 2020 and later, which may exhibit clutch judder. If the vehicle body vibrates without the steering wheel shuddering when performing the creep driving test (driving the vehicle up to 3mph), the vehicle is exhibiting clutch judder. The creep test can be conducted by driving at a speed slower than 5 mph after releasing the brake. Follow the procedure outlined in this publication to perform the KDS clutch judder inspection, and if indicated, replace the Dual Clutch Assembly in the 8-speed Wet Dual Clutch Transmission (WDCT).

MY	Model	Engine	Comment
2021MY~	K5 (DL3a)	2.5L T-GDI	GT Only
	Sorento (MQ4a)		EX and above trims, Non-hybrid

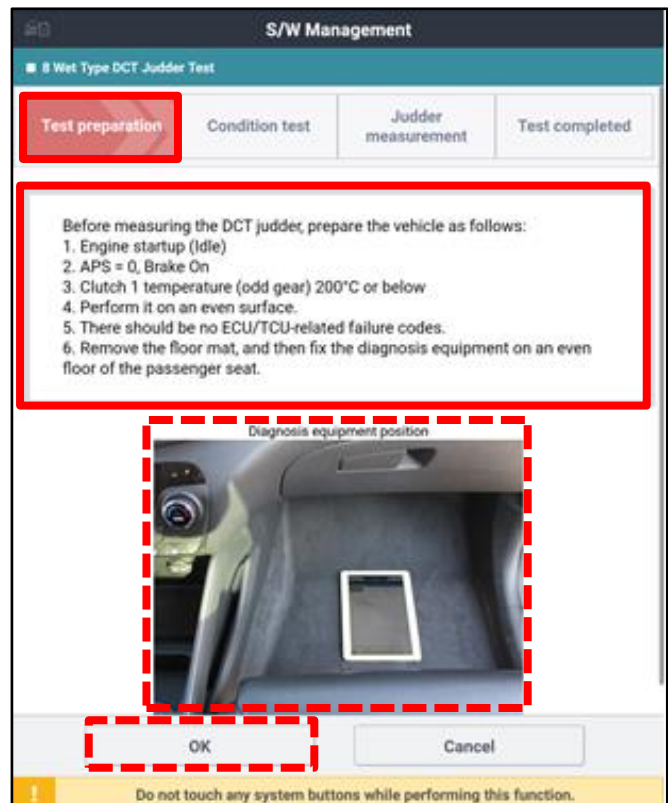


Inspection Procedure:

1. Park vehicle on a flat surface.
2. Using KDS, select 'S/W Management' from the Home screen.
3. In the 'Systems' tab, under 'Double Clutch Transmission', select '8 Wet Type DCT Judder Test'.



- 4a. Under 'Test preparation' follow the preparation instructions on KDS.



- 4b. Diagnosis equipment position: Place the KDS on the right passenger floor as shown.

- 4c. Select 'OK'.

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5a. Under 'Condition test', select the correct engine type of the vehicle.



5b. Select 'OK'.

6a. Under 'Condition test', satisfy the listed conditions on KDS.

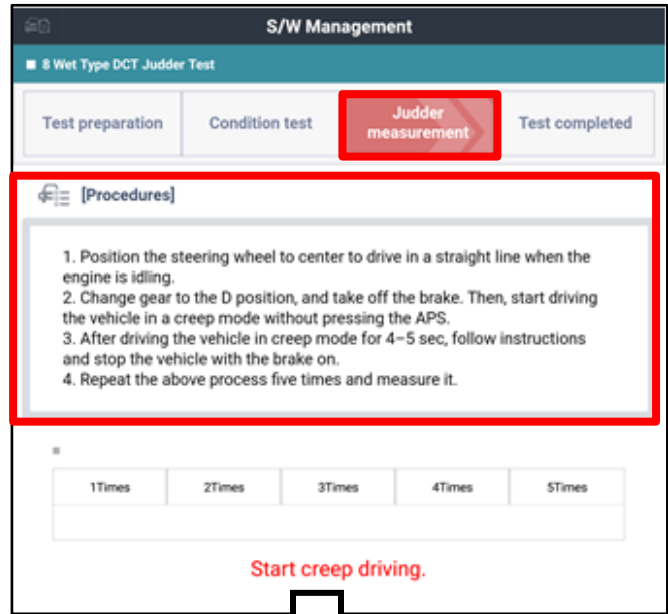


6b. Select 'OK'.



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7. Under 'Judder measurement' review the 'Procedures' outlined on KDS to measure DCT judder and follow the instructions on the screen to start creep driving.



Note: Performed a total of five (5x) times.



8. After completing the measurement test, apply the brake as instructed on KDS screen.



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9. Under 'Test completed', take the appropriate action based on the 'Result' as follows:

- 1) If the result is "Pass, no judder detected": No further action is required. Select 'OK' to complete.
- 2) If the result is "Required of examining the double clutch", proceed to the "Dual Clutch Transmission (DCT) Replacement Procedure" below.


Replacement Procedure:

1. Replace the clutch with a new one by referring to the "DCT (Dual Clutch Transmission) System → Dual Clutch System → Dual Clutch & Concentric Slave Cylinder (CSC) Assembly → Repair procedures" chapter in the applicable Shop Manual on KGIS.

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Model	Production Date Range
K5 (DL3a)	November 16, 2020 and later
Sorento (MQ4a)	October 26, 2020 and later

REQUIRED TOOL:**NOTICE**

Refer to KGIS for required SSTs to complete the repair.

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
Dual Clutch Assembly	41000 2N510		1
Kia Genuine Oil	WET DCTF 75W	N/A	2.85-2.96 Qt (2.7-2.8L)

Note: For additional parts required, such as one-time use clips and snap rings, replace as necessary per KGIS.

WARRANTY INFORMATION:

N Code: V54 C Code: ZZ6

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
DL3a, MQ4a	W	41000 2N510	0	Dual Clutch Judder Inspection (KDS)	41000F00	0.3 M/H	N/A	0
DL3a			1	Clutch Judder Inspection + Dual Clutch Assembly Replacement	41000F01	4.5 M/H	N/A	0
MQ4a						4.4 M/H		