TECHNICAL SERVICE BULLETIN

SUBJECT: SERVICE ACTION: 8-SPEED DUAL CLUTCH TRANSMISSION (DCT) S/W LOGIC IMPROVEMENT (SA502)

> 📄 **NOTICE**
>
> **This bulletin has been revised to include additional information.** New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information for the internal S/W logic of the A/T system on certain 2021-2023MY K5 (DL3a) and 2021-2022MY Sorento (MQ4a) vehicles equipped with Theta 2.5L T-GDI engine and 8-Speed DCT. The affected vehicles may experience abnormal shifting conditions while driving due to the amount of clutch oil flow consumption immediately after starting. In some cases, this is followed by a transmission error message and/or MIL ON with DTC P086800 stored. Follow the procedure in this publication to apply the improved logic to the 'A/T' system using the KDS to reflash the 'A/T' as described in this bulletin. For confirmation that the latest reflash has been applied to the vehicle you are working on, verify the ROM ID using the table on page 3 of this bulletin. Before performing the procedure, verify that the vehicle is included in the list of affected VINs.

DTC Description:

P086800 - Transmission Clutch Pressure Control Solenoid

SA Type	Model	Production Date Range
SA502A (Group 1 VINs)	Sorento (MQ4a)	October 26, 2020 to August 11, 2022
	K5 (DL3a)	November 16, 2020 to August 4, 2022
SA502B (Group 2 VINs)	Sorento (MQ4a)	June 21, 2022 to August 24, 2022
	K5 (DL3a)	August 5, 2022 to August 24, 2022

> 📄 **NOTICE**
>
> **A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.**
>
> **Repair status for a VIN is provided on WebDCS (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on WebDCS (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.**
>
> **This issue number is SA502.**

SUBJECT:
SERVICE ACTION: 8-SPEED DCT S/W LOGIC IMPROVEMENT (SA502)

AFFECTED VEHICLE RANGE:

Group	Model	Production Date Range
Group 1	Sorento (MQ4a)	October 26, 2020 to August 11, 2022
	K5 (DL3a)	November 16, 2020 to August 4, 2022
Group 2	Sorento (MQ4a)	June 21, 2022 to August 24, 2022
	K5 (DL3a)	August 5, 2022 to August 24, 2022

REQUIRED TOOL:

Tool Name	Figure	Comments
KDS		Kia Diagnostic System

WARRANTY INFORMATION:
N Code: N99   C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
MQ4a DL3a	V	954A1 2N180	0	(SA502A) DCT Software Update Group 1 VINs	220A13R1	0.5 M/H	N/A	0
				(SA502B) DCT Software Update Group 2 VINs	220A14R1			

<u>Note</u>: Manually enter sublet code 'X2' for reimbursement of one roundtrip rideshare expense or up to three (3) days of rental expense, with supporting documentation.

> 🗎 **NOTICE**
>
> **VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference <u>SA502</u> when accessing the WebDCS system.**