 HYUNDAI Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 20-01-021H-1
	DATE May, 2020	MODEL(S) Kona (OS), Elantra Sport (AD), Elantra GT (PD)
SUBJECT: DCT REPLACEMENT: TRANSFERRABLE PARTS (SERVICE CAMPAIGN T4Q)		

This TSB replaces 20-01-021H by updating the description section.

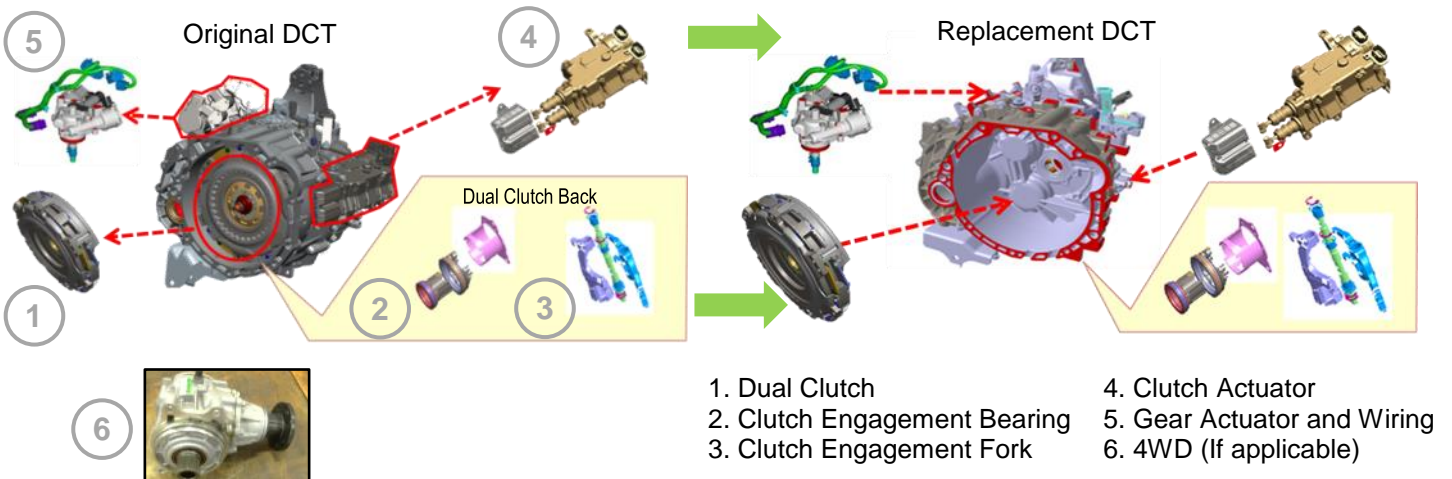
★ IMPORTANT

***** Dealer Stock and Retail Vehicles *****

Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.



When a vehicle arrives at the Service Department, access Hyundai Motor America's Vehicle Information Screen (VIS) via WEBDCS to identify open Campaigns.

Description: For certain Elantra GT (PD), Elantra Sport (AD), or Kona (OS) vehicles, replace the Dual Clutch Transmission (DCT) using the applicable QQH part number (see Parts Information), and transfer parts from the original DCT onto the replacement DCT. Refer to the figure below for transferred parts:



Applicable Vehicles: Certain 19MY Elantra GT (PD), Elantra Sport (AD) and Kona (OS) vehicles



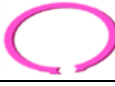


Special Service Tools

SPECIAL SERVICE TOOL	PART NUMBER	DESCRIPTION	PHOTO
Double Clutch Remover	09430-C1180	Used to remove the double clutch from the transmission	
Double Clutch Installer	09430-2A240	Used to install the double clutch into the transmission	

The Special Service Tools can be ordered through Bosch at (866) 539-4248.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

Parts Information:

MODEL	PART NUMBER	DESCRIPTION	REMARK
All Models	Included with Transmission 	Outer Clutch Snap Ring	
		Inner Clutch Snap Ring	
		Grease	5g 
Elantra GT (PD)	4300D2-D077QQH	Transmission	
Elantra Sport (AD)			
Kona (OS) 4WD	4300M2-D142QQH	Transmission	
Kona (OS) 2WD			

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
Kona (OS) 2WD	90C046R0	DCT REPLACEMENT	3.2 M/H	43370-2D150	T43	ZZ1
Kona (OS) 4WD	90C046R1	DCT REPLACEMENT	4.6 M/H			
Elantra Sport (AD)	90C046R2	DCT REPLACEMENT	3.2 M/H			
Elantra GT (PD)	90C046R4	DCT REPLACEMENT	3.5 M/H			

Note 1: Submit claim on Campaign Claim Entry Screen.

Note 2: If a part is found in need of replacement while performing Service Campaign T4Q and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to the repair.

NOTICE

Please consult the applicable vehicle shop manual prior, during, and after performing steps instructed in this bulletin to ensure best results.

CAUTION

To avoid damage, reuse the dual clutch, clutch engagement bearing, clutch engagement fork, clutch actuator, and gear actuator and wiring. If applicable, also reuse the 4WD drive.

Service Procedure:

A) DCT Removal

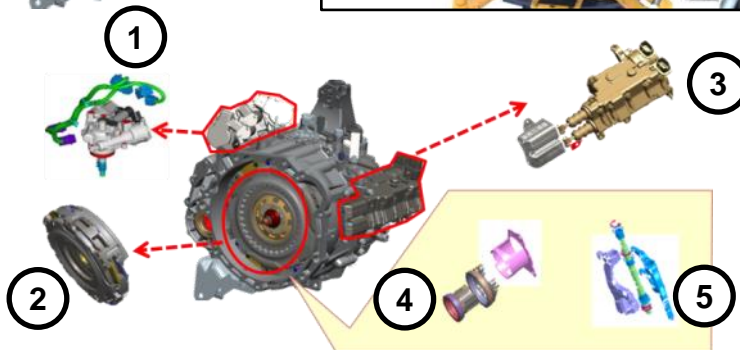
- Using the applicable vehicle shop manual, carefully remove the DCT from the vehicle.

The correct section can be located below:



- The following parts will be removed from the DCT:

- 1) Gear Actuator and Wiring
- 2) Dual Clutch
- 3) Clutch Actuator
- 4) Clutch Engagement Bearing
- 5) Clutch Engagement Fork



NOTICE

6) If applicable, remove and transfer the 4WD drive. Use the applicable shop manual for removal and transfer procedure.



NOTICE

Place parts aside for reuse.

- Remove the actuator bolts, and remove the gear actuator and wiring (G).

NOTICE

Save all bolts for reuse.



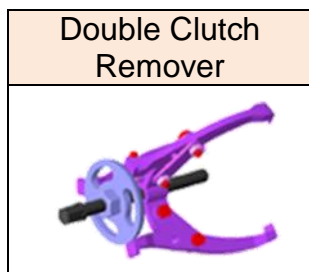
- Remove both the inner snap ring and outer ring.

NOTICE

New snap rings have been supplied.



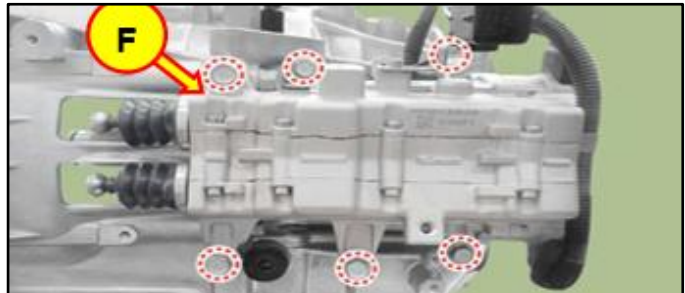
- To prevent damage, remove the dual clutch using the double clutch remover.



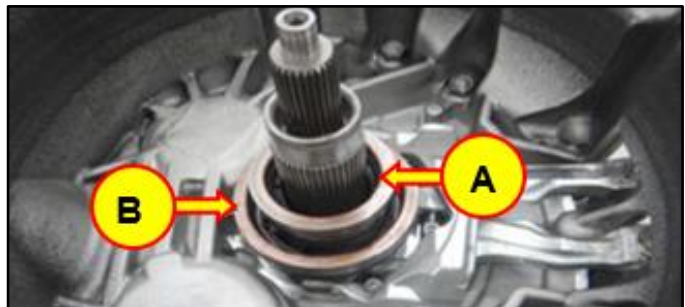
- Remove the mounting bolts and remove the clutch actuator (F).

NOTICE



Save all bolts for reuse.



- Remove both engagement bearings (A) and (B).

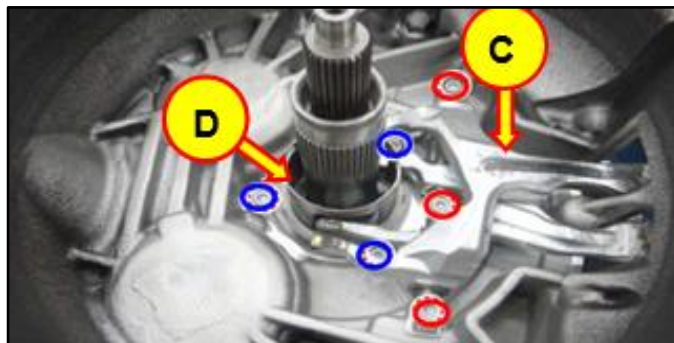


8. Remove the fork mounting bolts and bearing mounting bolts.

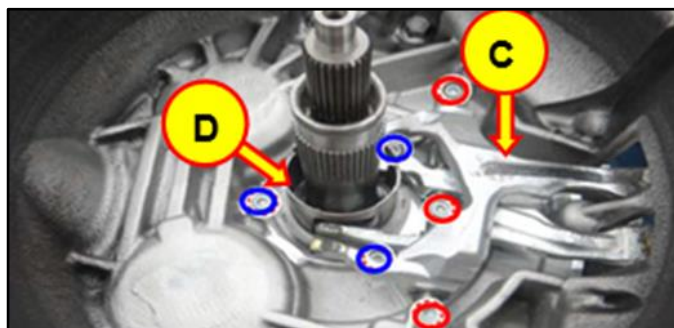
BLUE MARK* (Bearing sleeve bolt)	RED MARK* (Fork bolt)
	

NOTICE

Save all bolts for reuse.



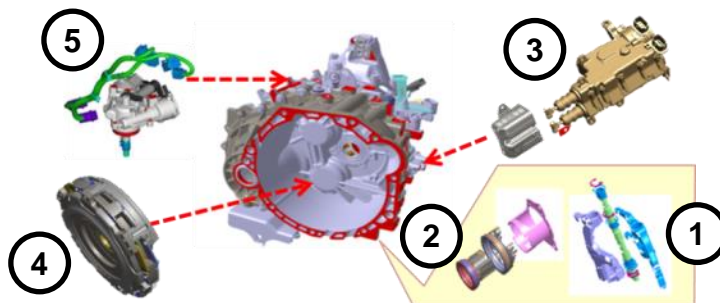
9. Remove the clutch engagement fork (C) and engagement bearing sleeve (D).



B) DCT Installation

1. The following removed parts will be installed into the new DCT:

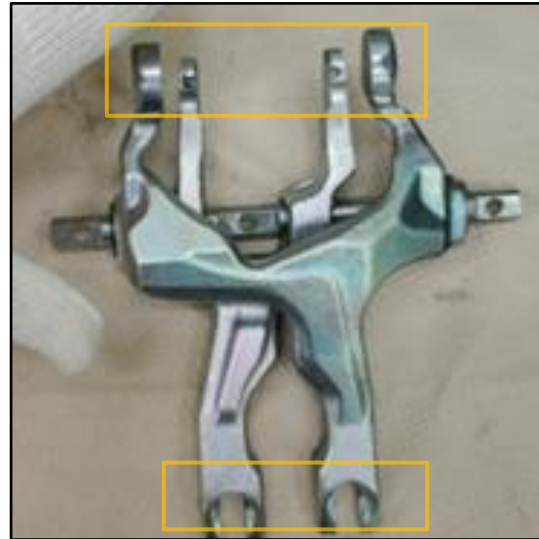
- 1) Clutch Engagement Fork
- 2) Clutch Engagement Bearing
- 3) Clutch Actuator
- 4) Dual Clutch
- 5) Gear Actuator and Wiring



2. Remove any grease from the clutch fork using a towel.



- 3. Apply approximately 0.5g of supplied grease evenly to all six clutch fork areas.

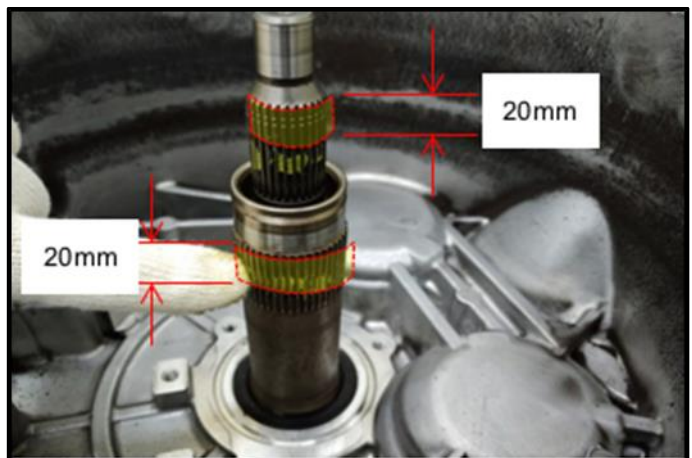


- 4. Remove any grease on both input spline shafts using a towel.



- 5. Apply approximately 0.2g of supplied grease to both input shaft spline areas.

See reference picture for location.



 **CAUTION**



Prevent over application of grease.

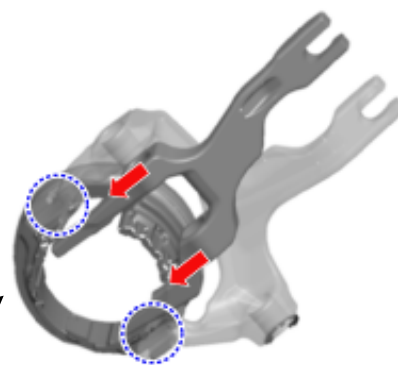
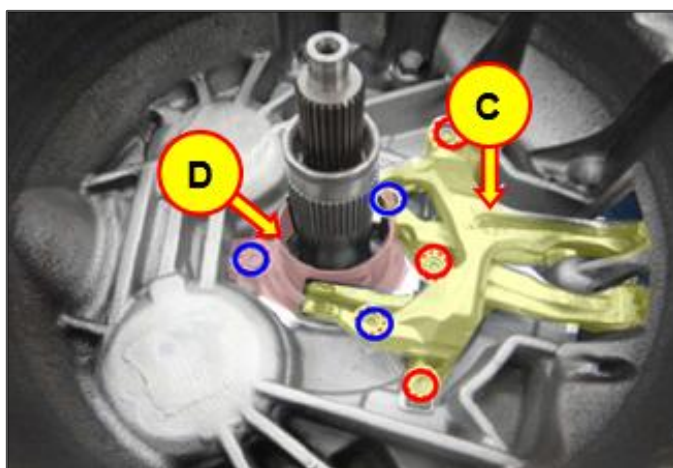
6. Install the clutch fork (C) and bearing sleeve (D) along with the fork and bearing sleeve bolts according to the applicable vehicle shop manual instructions.

The correct section can be located below:



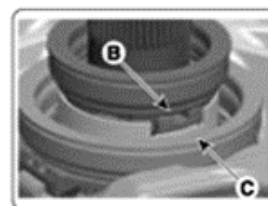
Torque specifications for the bearing sleeve bolts and fork bolts are listed below:

BEARING SLEEVE (Blue)	FORK (Red)	N.m	• 9.8-11.8
		kgf.m	• 1.0-1.2
		lb-ft	• 7.2-8.7



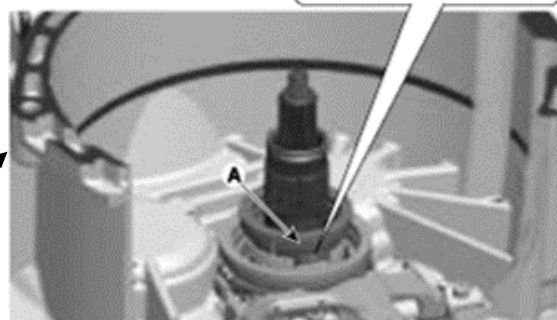
NOTICE

Align clutch fork with plastic bearing guide direction. See reference diagram to the right.

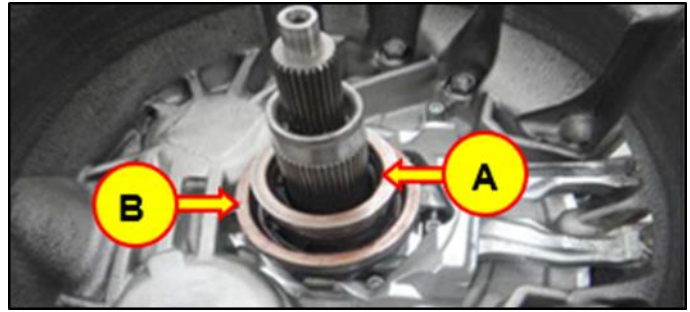


CAUTION

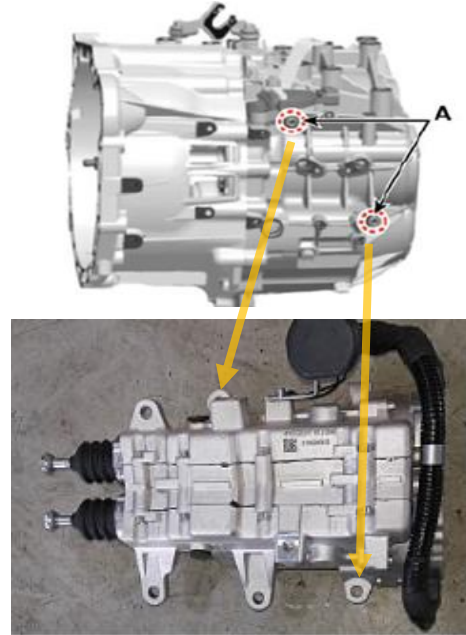
Verify that the plastic bearing stopper sits flush within the engagement bearing sleeve. See reference photo to the right.



7. Install both engagement bearings (A) and (B).

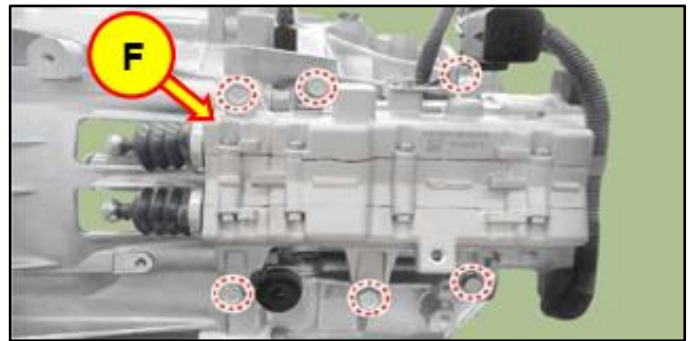


8. Align the clutch actuator to the dowel pins positions as displayed in the reference diagram to the right.



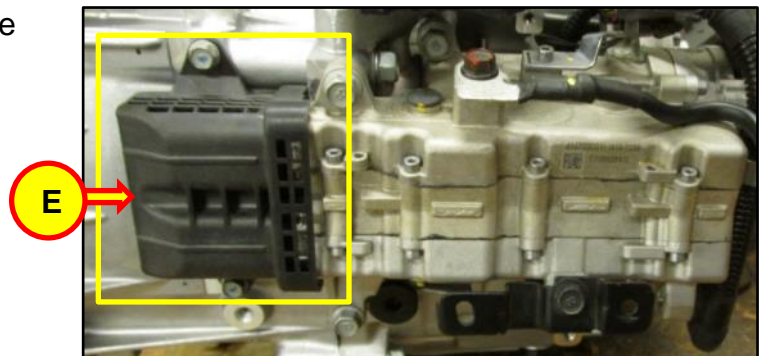
9. Install the clutch actuator (F) and reinstall the mounting bolts. Torque specifications are listed below:

N.m	• 19.6 - 26.5
kgf.m	• 2.0 - 2.7
lb-ft	• 14.5 - 19.5



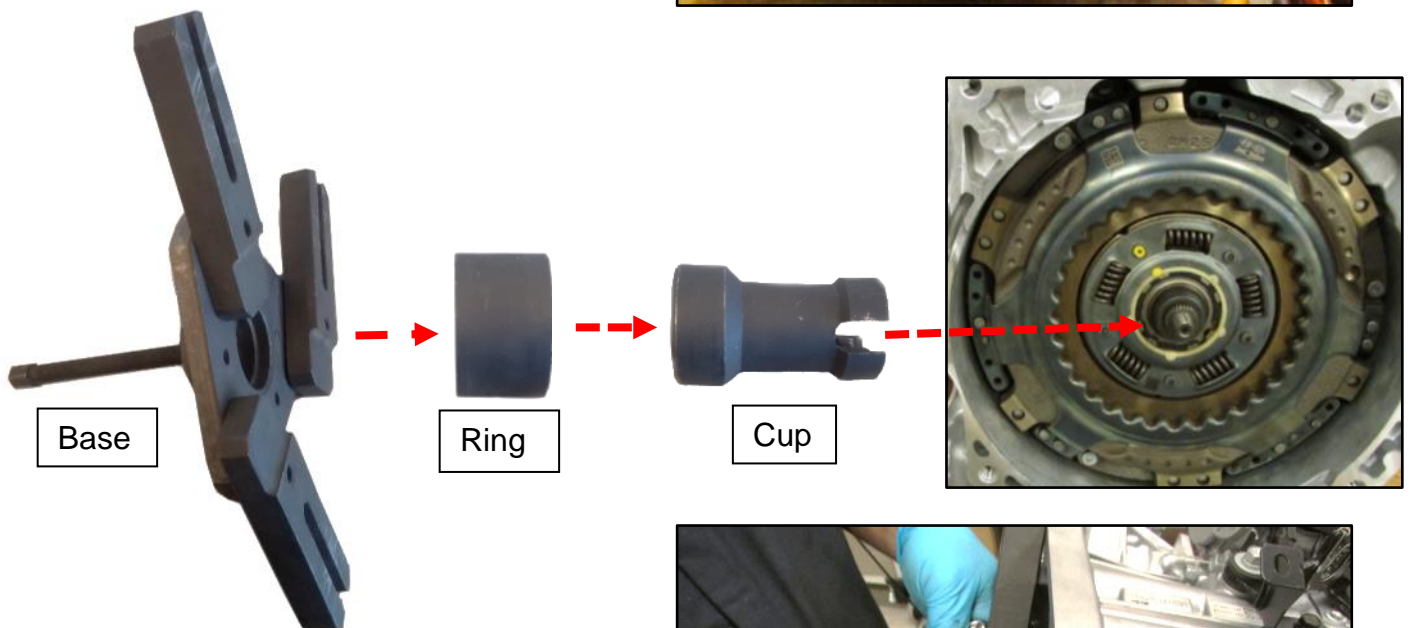
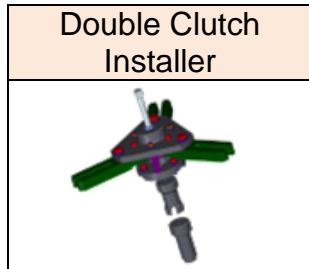
10. Install clutch actuator cover (E). Torque specifications for the bolts are listed below:

N.m	• 3.9-5.9
kgf.m	• 0.4-0.6
lb-ft	• 2.9-4.3



- 11. Carefully install the dual clutch using the double clutch installer.

Place the cup portion of the double clutch installer over the transmission input shaft.

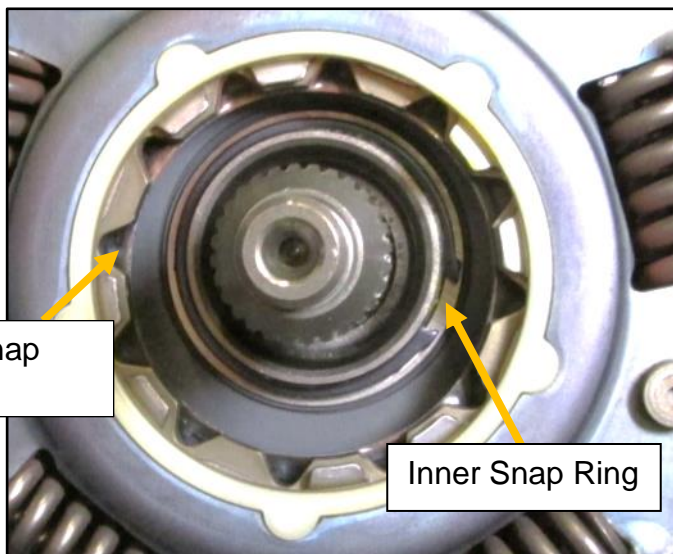


12. Install the supplied snap rings during the dual clutch installation.

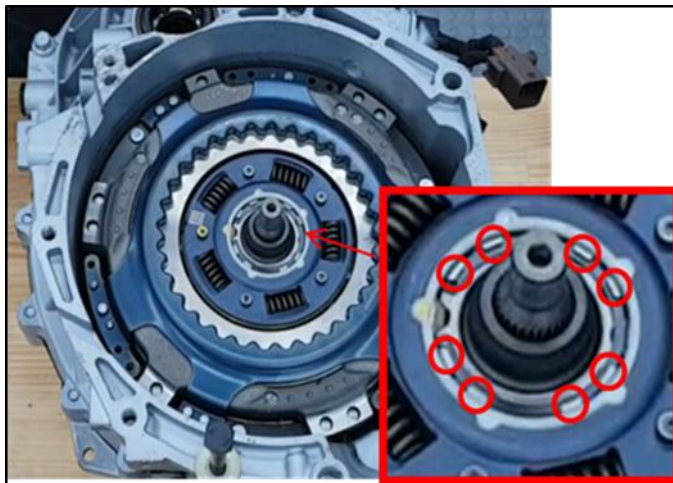
Inner Snap Ring	Outer Snap Ring
	



CAUTION
If snap rings are not installed correctly, the transmission will not shift correctly!

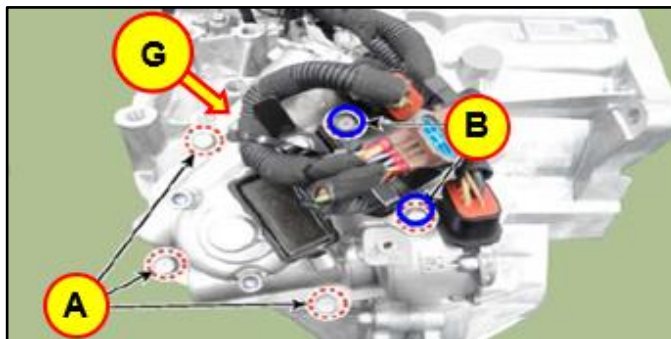


13. Verify all snap ring hook areas are properly installed around entire surface area.



14. Install the gear actuator and wiring (G) **HORIZONTALLY** and install the actuator bolts. Torque specifications are listed below:

	N.m	• 19.6 - 26.5
	kgf.m	• 2.0 - 2.7
	lb-ft	• 14.5 - 19.5
	N.m	• 9.8 - 11.8
	kgf.m	• 1.0 - 1.2
	lb-ft	• 7.2 - 8.7



CAUTION
 Gear actuator must be installed in neutral position.

15. Reinstall DCT in vehicle.
 See shop manual for proper installation:



CAUTION
 Inspect transmission oil levels after installation. Add new oil if transmission oil levels are low.



16. Use the GDS to perform the DCT relearn.
 17. Service procedure is now complete.