

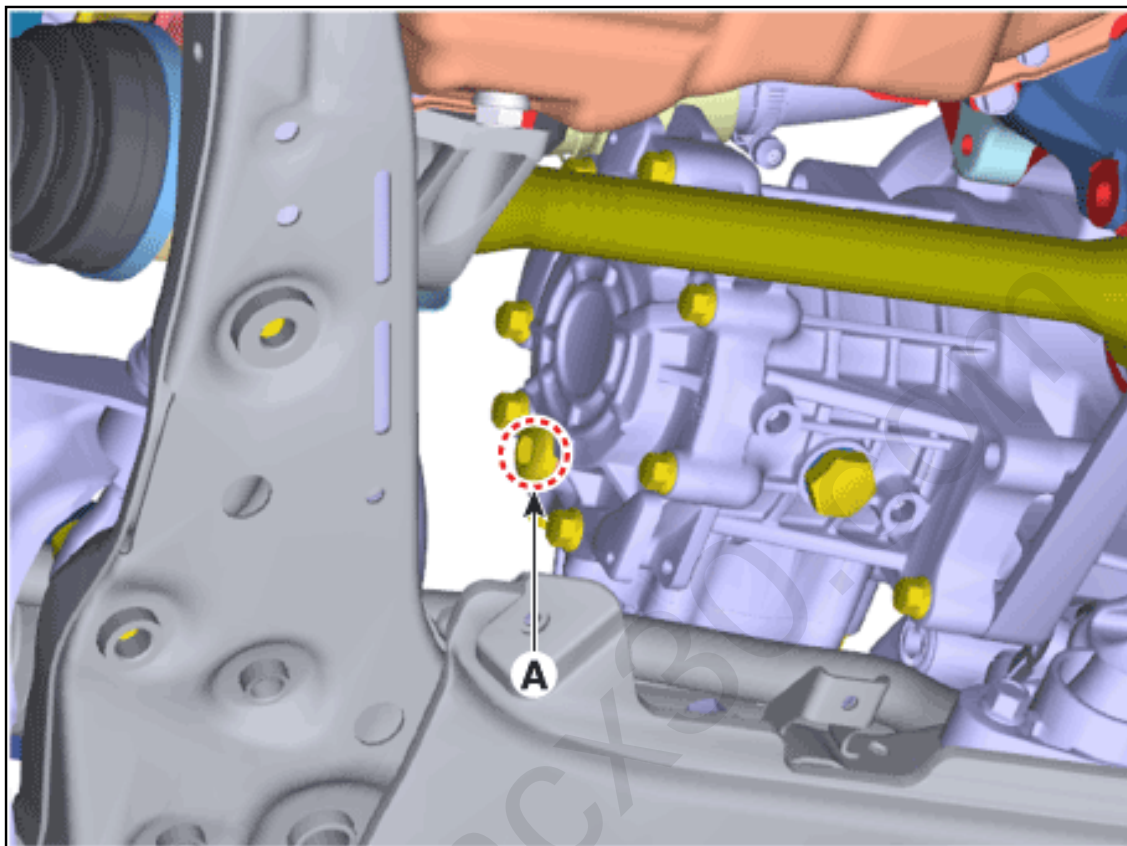
Inspection



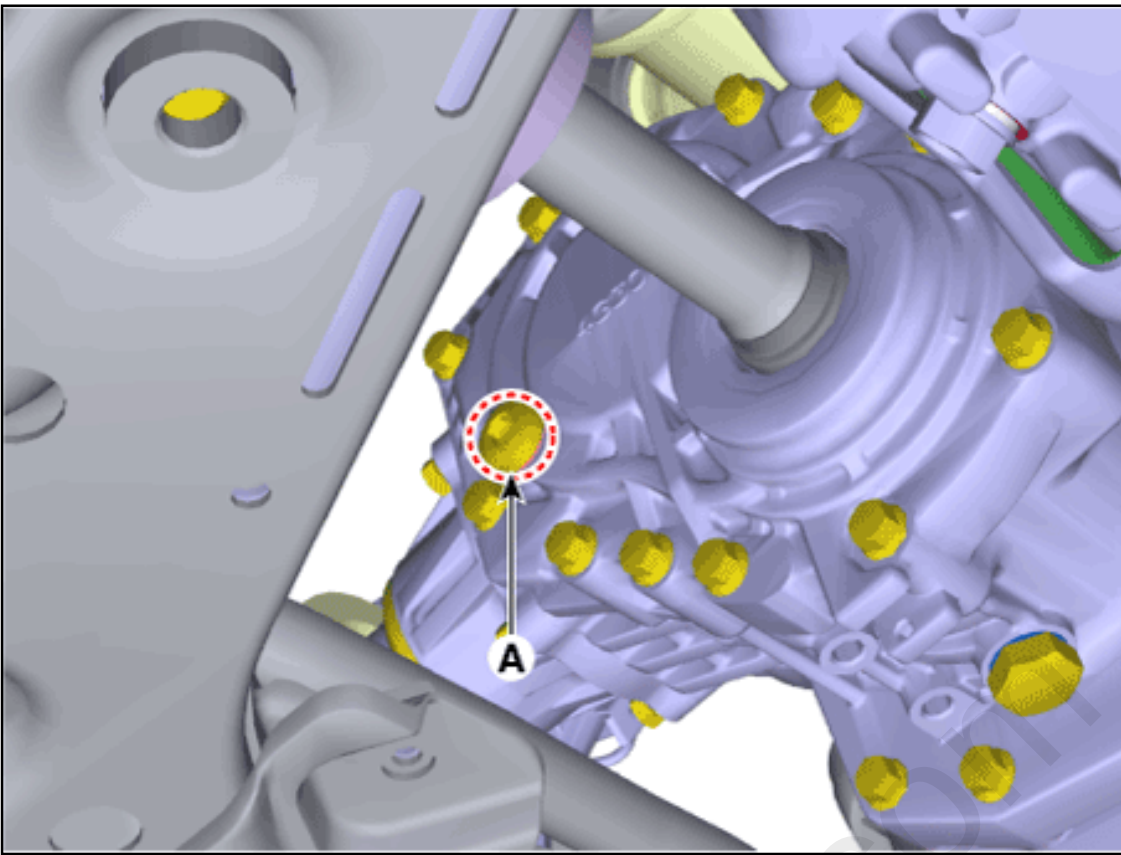
•Transfer oil should be inspected and refilled every 60,000 km (40,000 mile) / 4 year.

1. Remove the engine room under cover.
(Refer to Engine Mechanical System - "Engine Room Under Cover")
2. Loosen the oil filler plug (A).

[A Type]



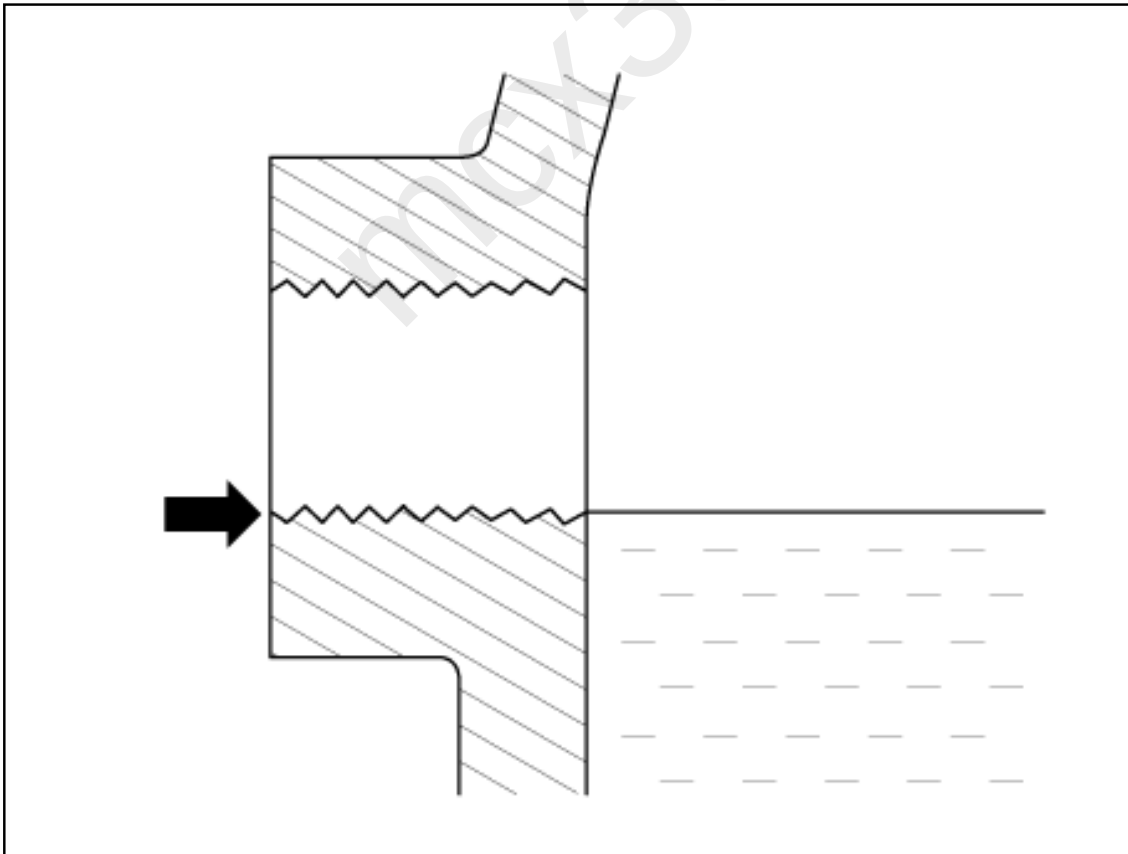
[B Type]



3. Check the oil level.



- Oil level must be up to fill the hole, if not, add oil until it runs over.



4. Install the oil filler plug with new gasket.

Tightening torque :

39.2 - 58.8 N.m (4.0 - 6.0 kgf.m, 28.9 - 43.4 lb-ft)

5. Install the engine room under cover.

(Refer to Engine Mechanical System - "Engine Room Under Cover")

Replacement



Change		Capacity	Specification
Normal Use	Severe Use	Filled up to lower filler plug thread level. [A Type] : Filled up to lower filler plug thread	Hypoid gear oil MS 517-15 GTC 75W/85 (GL-5) (SK HCT-5 GEAR OIL 75W/85 or EQUIVALENT)
No service required	120,000 km (80,000 miles)	0.5L ± 0.0225L (0.13 U.S gal, 0.52 U.S qt, 0.44 Imp qt) ± (0.01 U.S gal, 0.03 U.S qt, 0.02 Imp qt) [B Type] : 0.65 L (0.17 U.S. gal, 0.69 U.S.qt, 0.57 Imp,qt)	

Severe driving conditions

- Driving in dusty, rough roads
- Driving in mountains areas
- Driving for patrol car, taxi, commercial car or vehicle towing
- Driving over 170Km/h

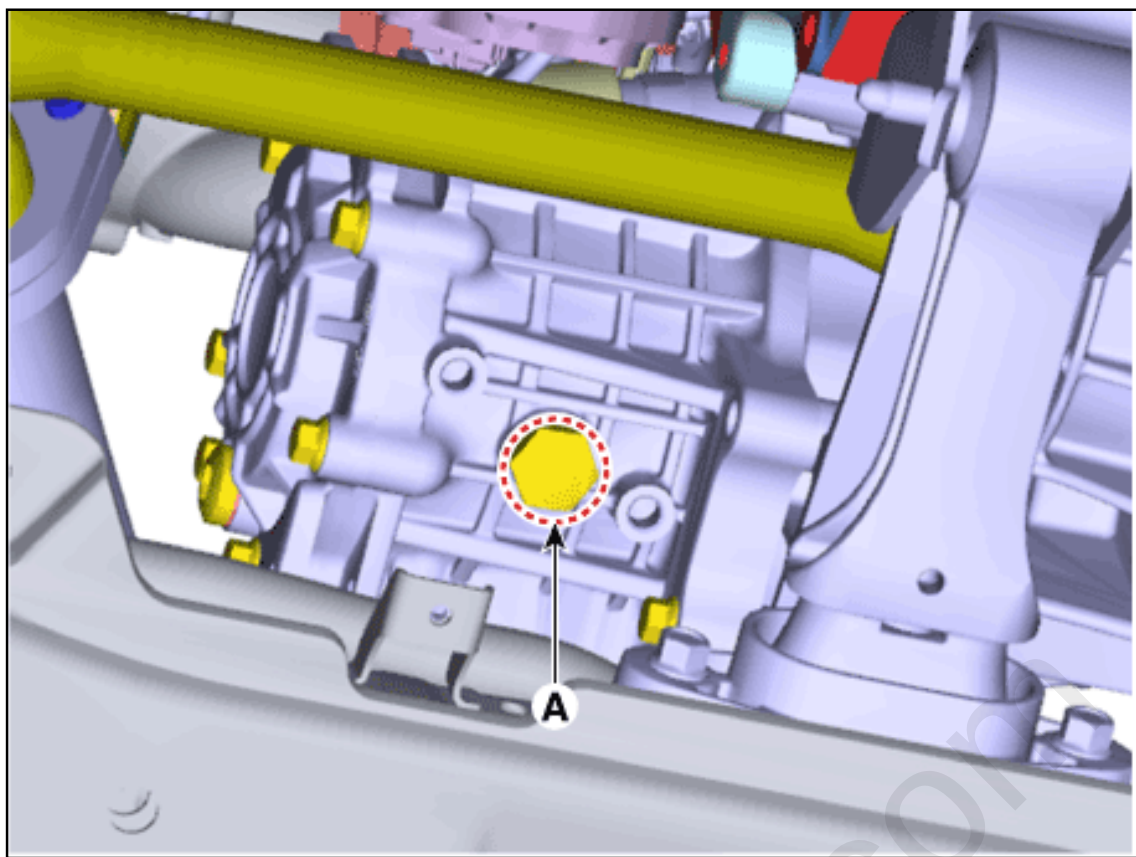
* Transfer oil should be replaced if the transfer assembly is fall into the water.

1. Remove the engine room under cover.

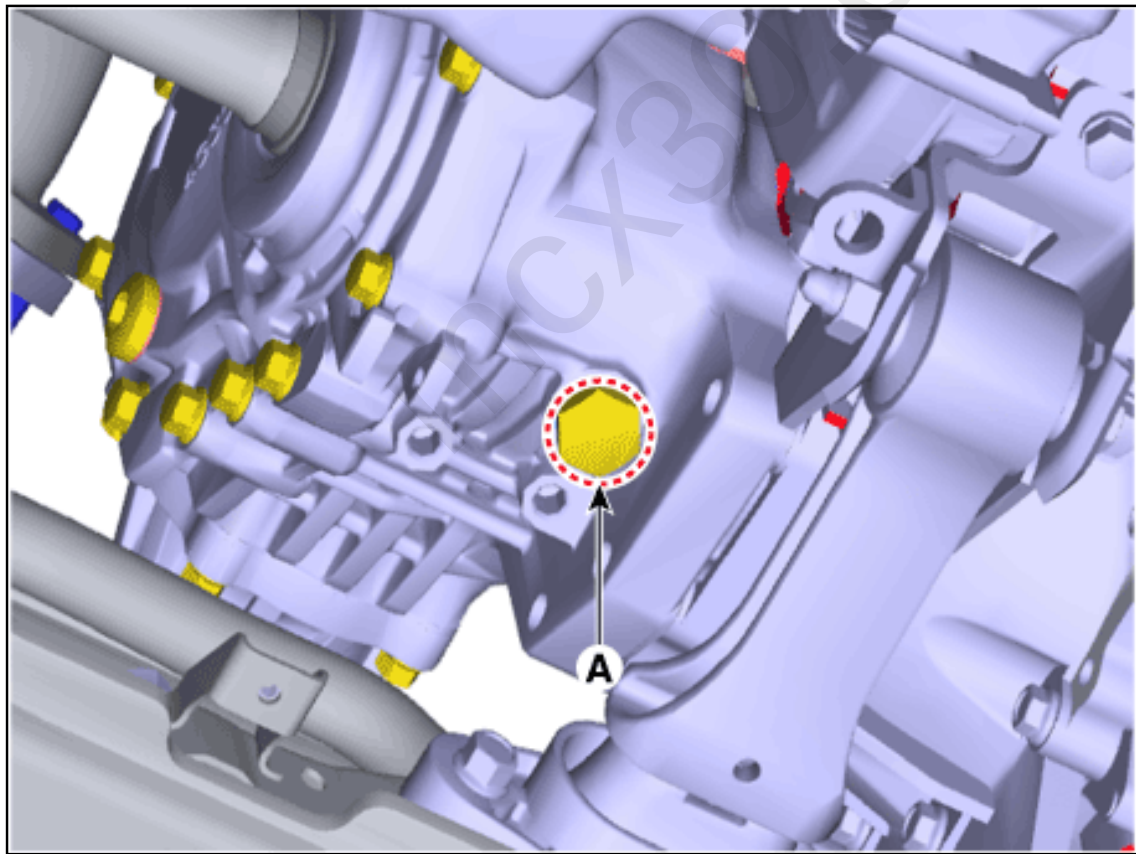
(Refer to Engine Mechanical System - "Engine Room Under Cover")

2. Drain the transfer oil after loosening the drain plug (A).

[A Type]



[B Type]



3. Install the drain plug with new gasket.

Tightening torque :

39.2 - 58.8 N.m (4.0 - 6.0 kgf.m, 28.9 - 43.4 lb-ft)

4. Refill the transfer specified oil after loosening the filler plug (A).

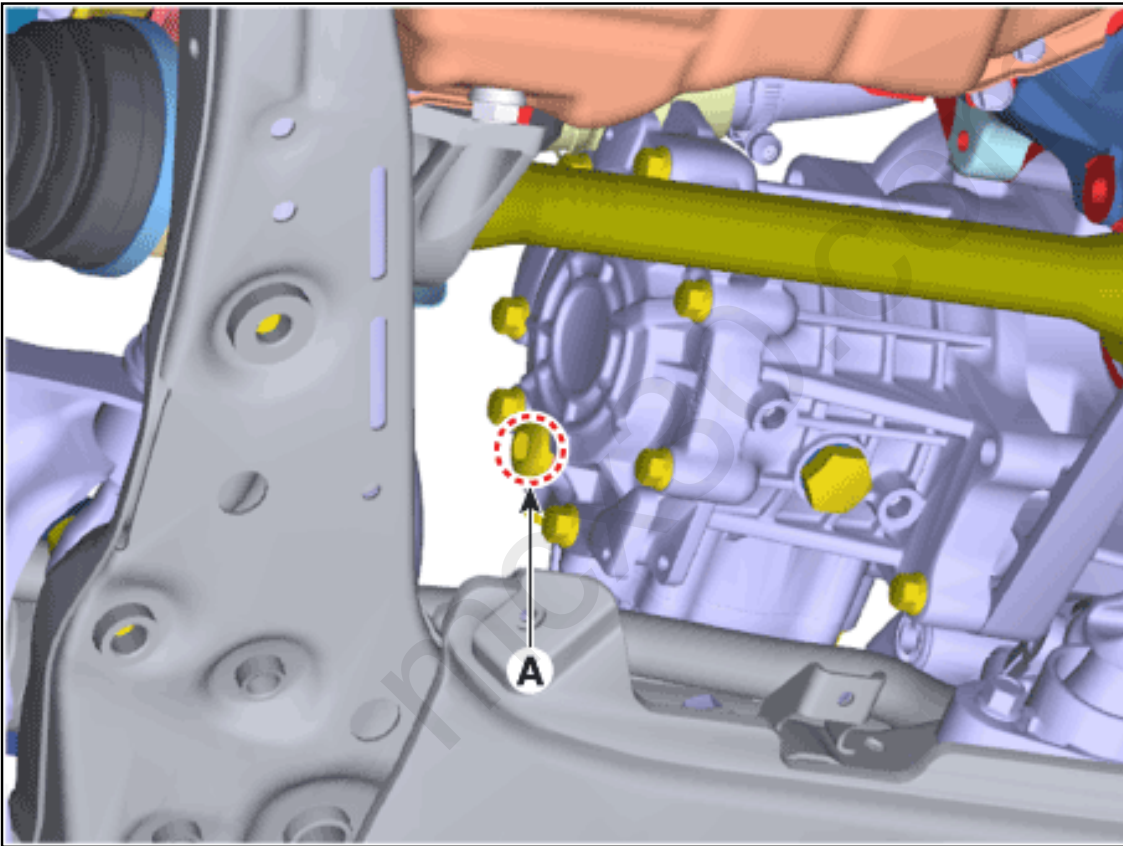
Specified oil : Hypoid gear oil, MS 517-15 GTC 75/85 (GL-5)

Capacity : Filled up to lower filler plug thread level.

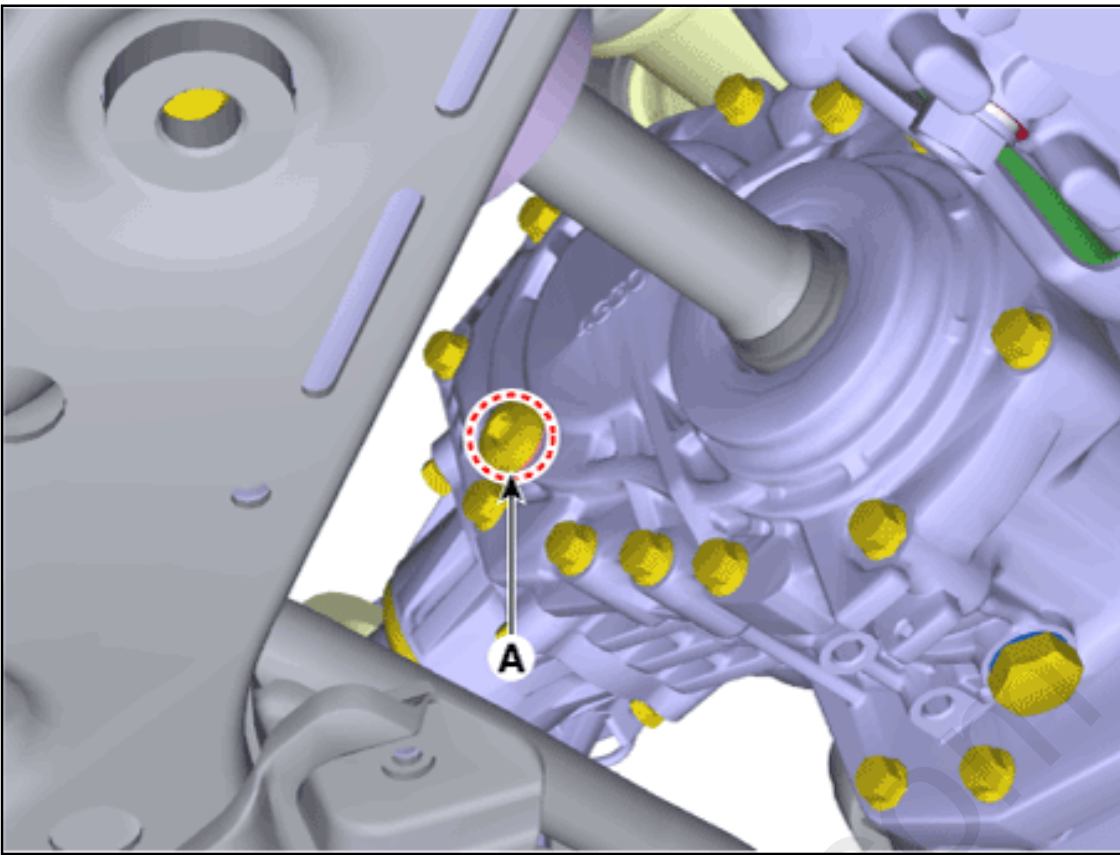
[A Type] : 0.5L $\pm$ 0.0225L (0.13 U.S gal, 0.52 U.S qt, 0.44 Imp qt) $\pm$ (0.01 U.S gal, 0.03 U.S qt, 0.02 Imp qt)

[B Type] : 0.65 L (0.17 U.S.gal, 0.69 U.S.qt, 0.57 Imp,qt)

[A Type]



[B Type]



5. Install the filler plug with new gasket.

Tightening torque :

39.2 - 58.8 N.m (4.0 - 6.0 kgf.m, 28.9 - 43.4 lb-ft)

6. Install the engine room under cover.
(Refer to Engine Mechanical System - "Engine Room Under Cover")

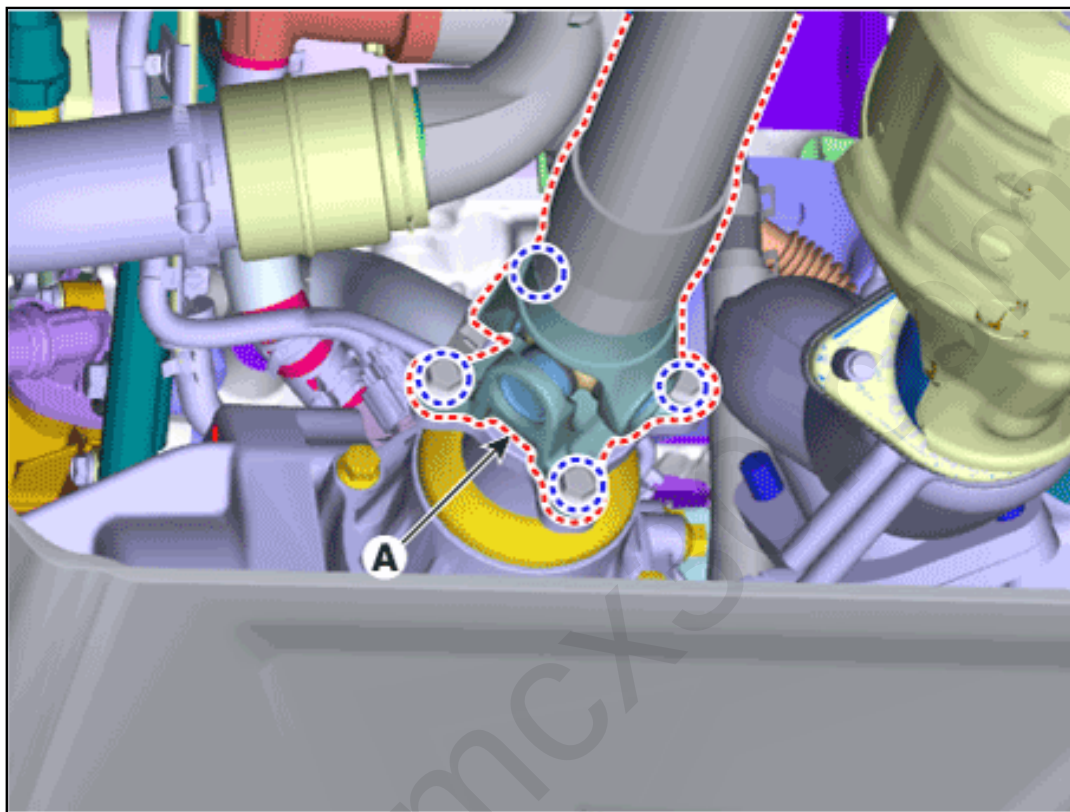
Removal

[A Type]

1. Remove the engine room under cover.
(Refer to Engine Mechanical System - "Engine Room Under Cover")
2. Remove the front driveshaft assembly. [Right side]
(Refer to Driveshaft and Axle - "Front Driveshaft")
3. Remove the front propeller shaft assembly (A) from the transfer assembly.

Tightening torque :

49.0 - 68.6 N.m (5.0 - 7.0 kgf.m, 36.2 - 50.6 lb-ft)



4. Remove the transfer case assembly.
(1) Loosen the transfer assembly upper mounting bolts (A).

Tightening torque :

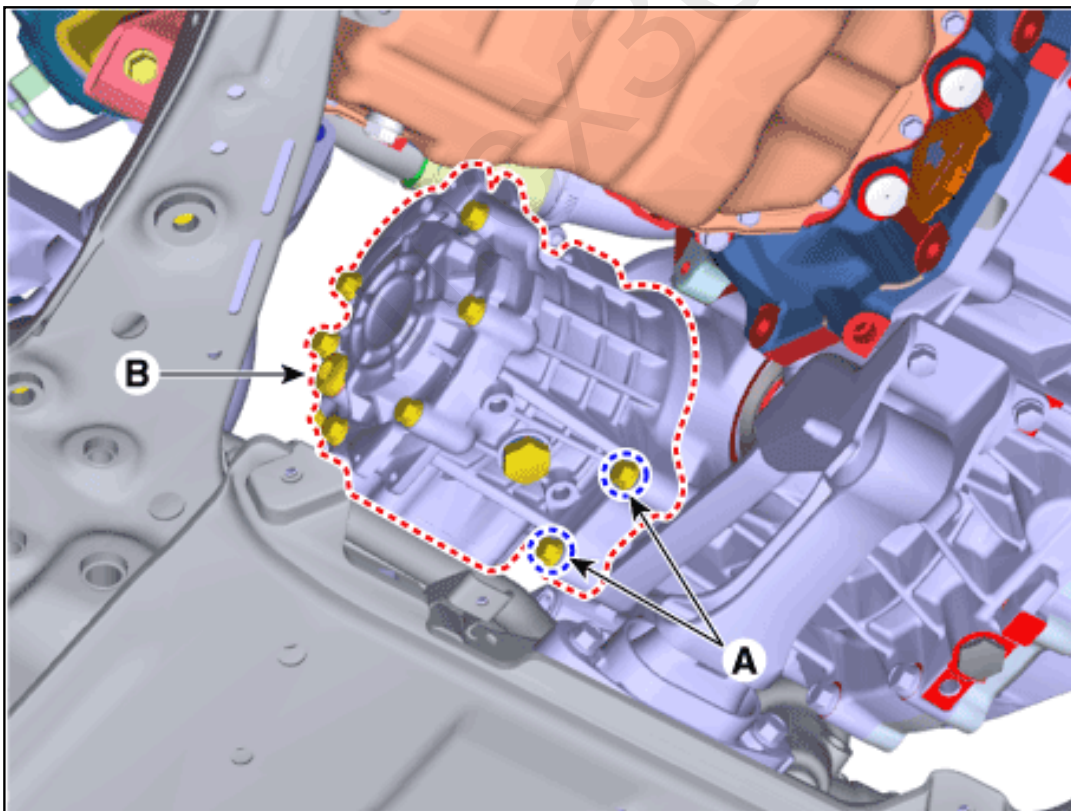
60.8 - 65.7 N.m (6.2 - 6.7 kgf.m, 44.8 - 48.5 lb-ft)



(2) Loosen the lower mounting bolts (A) and then removing the transfer case assembly (B).

Tightening torque :

60.8 - 65.7 N.m (6.2 - 6.7 kgf.m, 44.8 - 48.5 lb-ft)

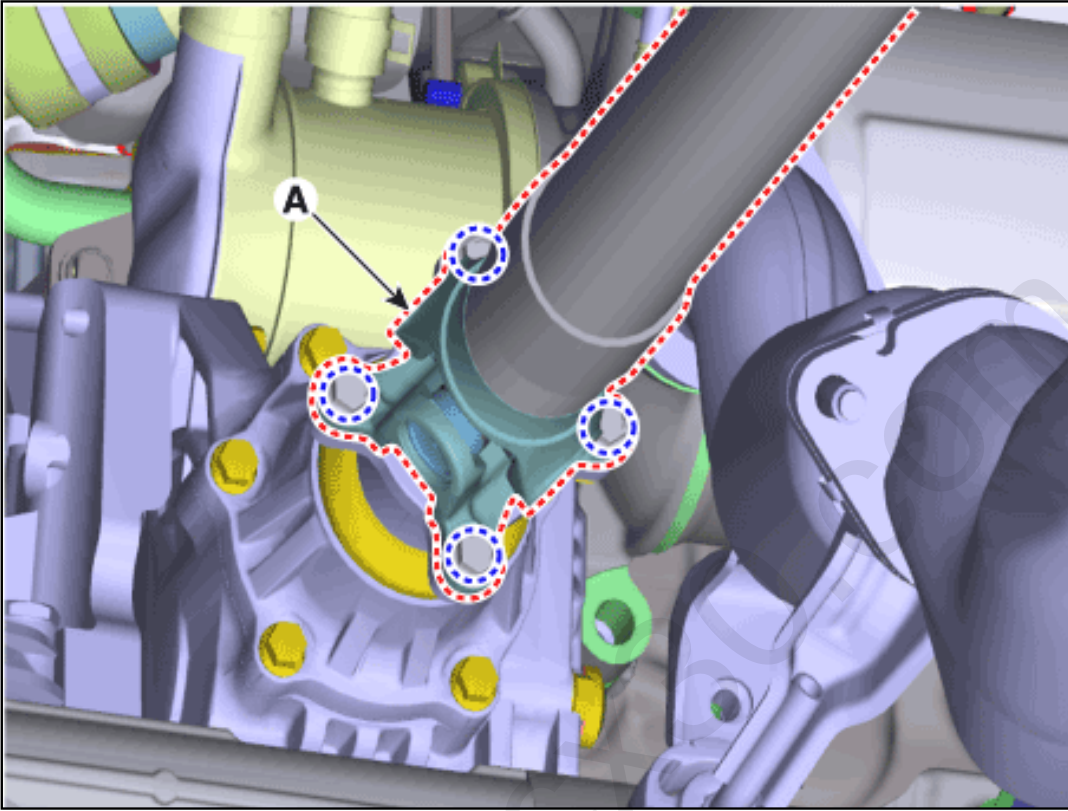


[B Type]

1. Remove the engine room under cover.
(Refer to Engine Mechanical System - "Engine Room Under Cover")
 2. Remove the front drive shaft assembly. [Right side]
(Refer to Driveshaft and Axle - "Front Driveshaft")
 3. Remove the front propeller shaft assembly (A) from the transfer assembly.
-

Tightening torque :

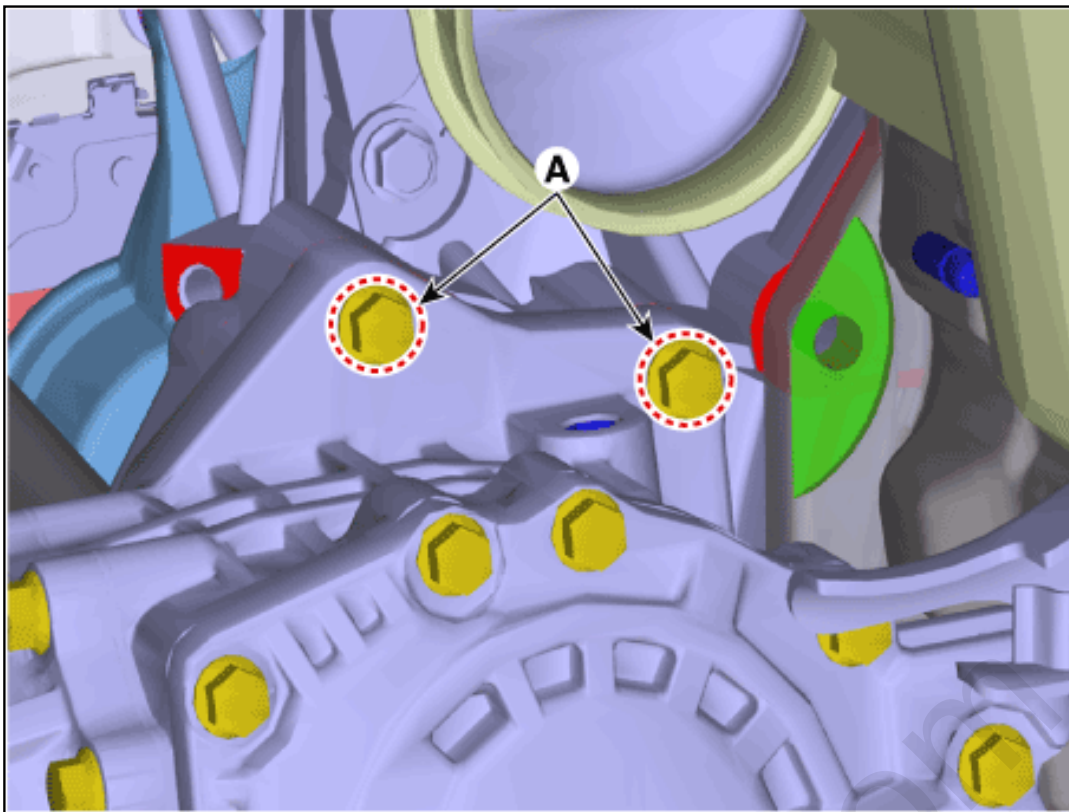
49.0 - 68.6 N.m (5.0 - 7.0 kgf.m, 36.2 - 50.6 lb-ft)



4. Remove the transfer case assembly.
(1) Loosen the transfer assembly upper mounting bolts (A).
-

Tightening torque :

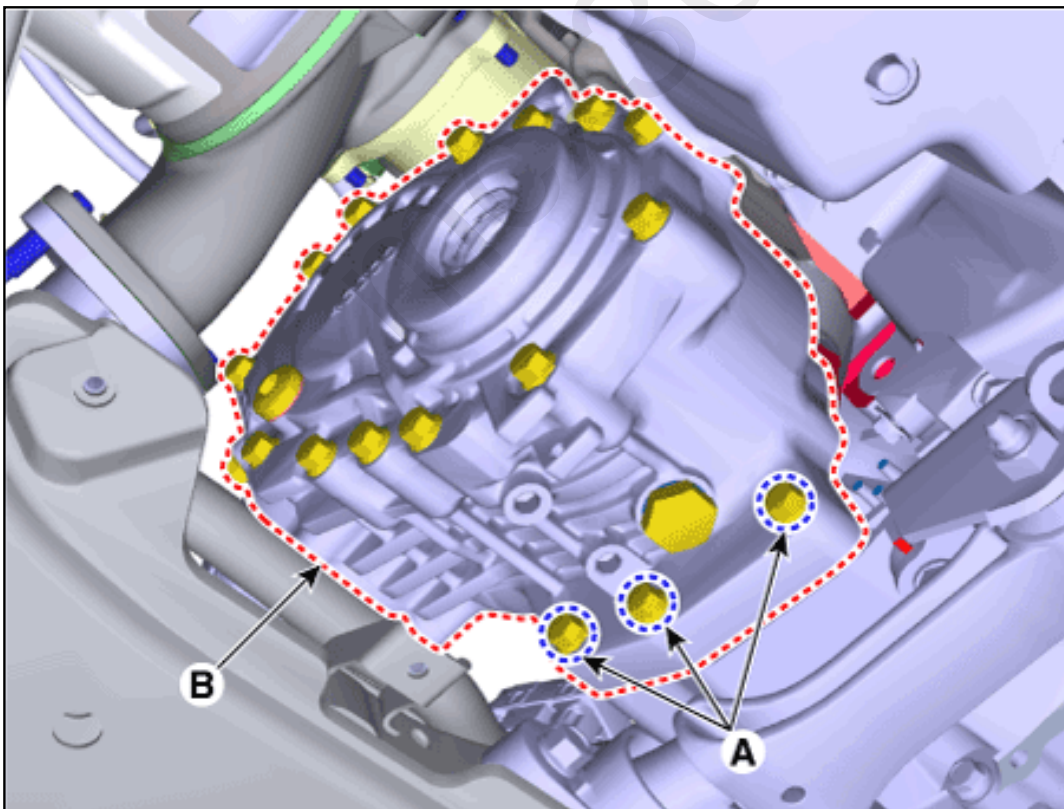
60.8 - 65.7 N.m (6.2 - 6.7 kgf.m, 44.8 - 48.5 lb-ft)



(2) Loosen the lower mounting bolts (A) and then removing the transfer case assembly (B).

Tightening torque :

60.8 - 65.7 N.m (6.2 - 6.7 kgf.m, 44.8 - 48.5 lb-ft)



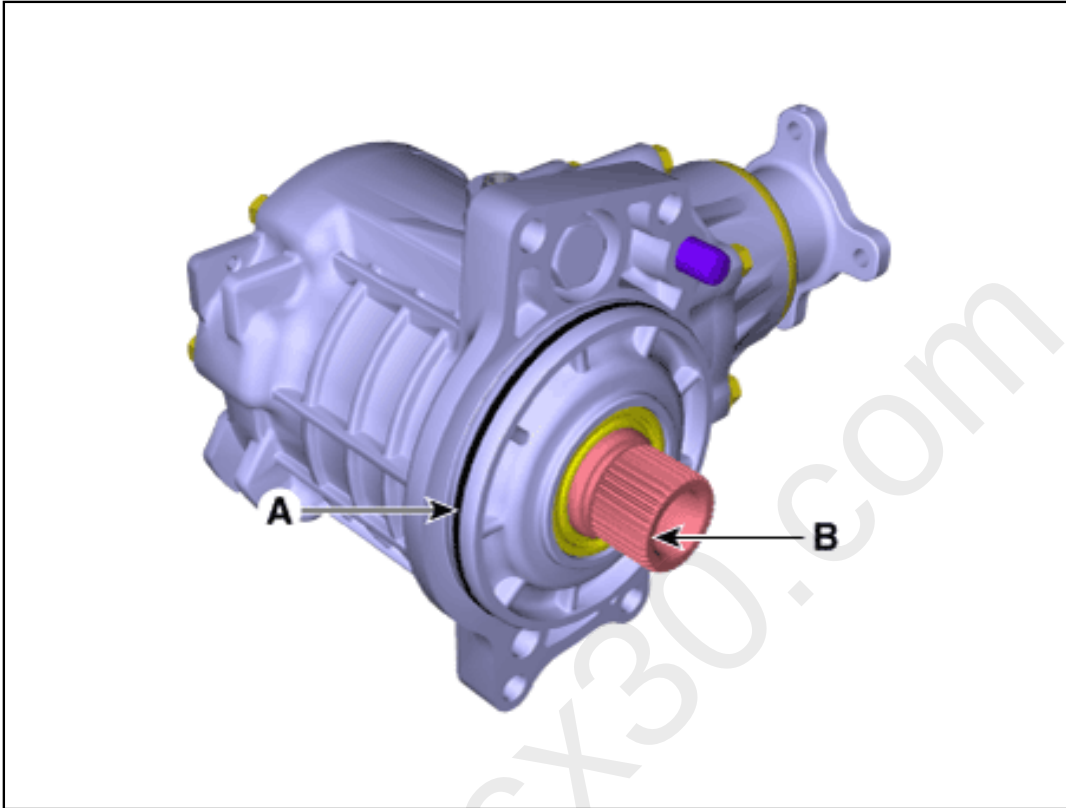
1. To install, reverse the removal procedures.



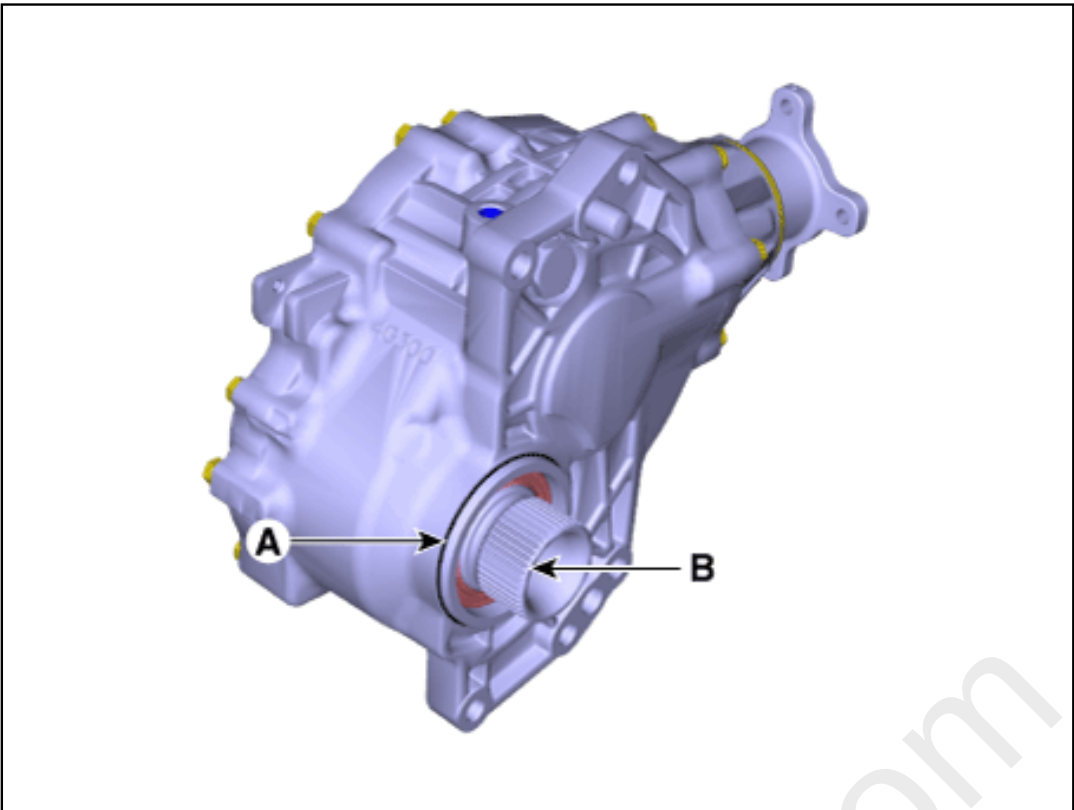
- Be careful not to damage the O-ring (A). If the O-ring is damaged, replace with a new one.
- Smear and cover splines (B) with molybdenum type high pressure grease.

GREASE SPL-1 equivalent (MS511-07)

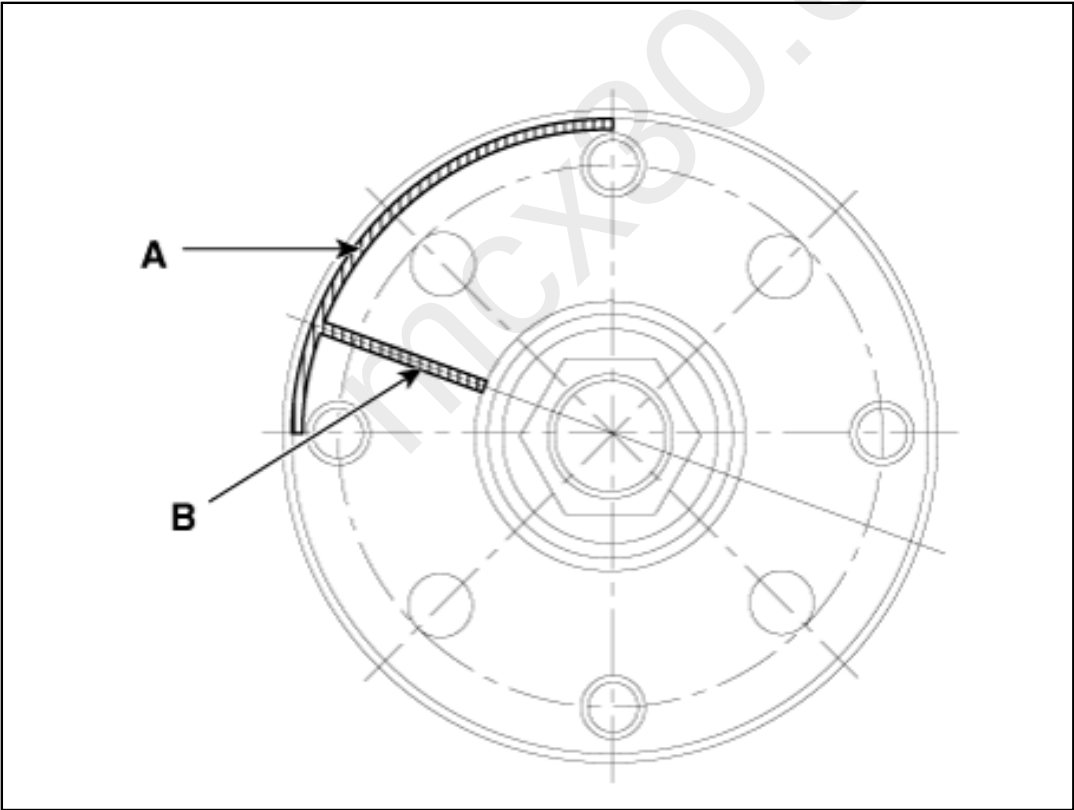
[A Type]



[B Type]

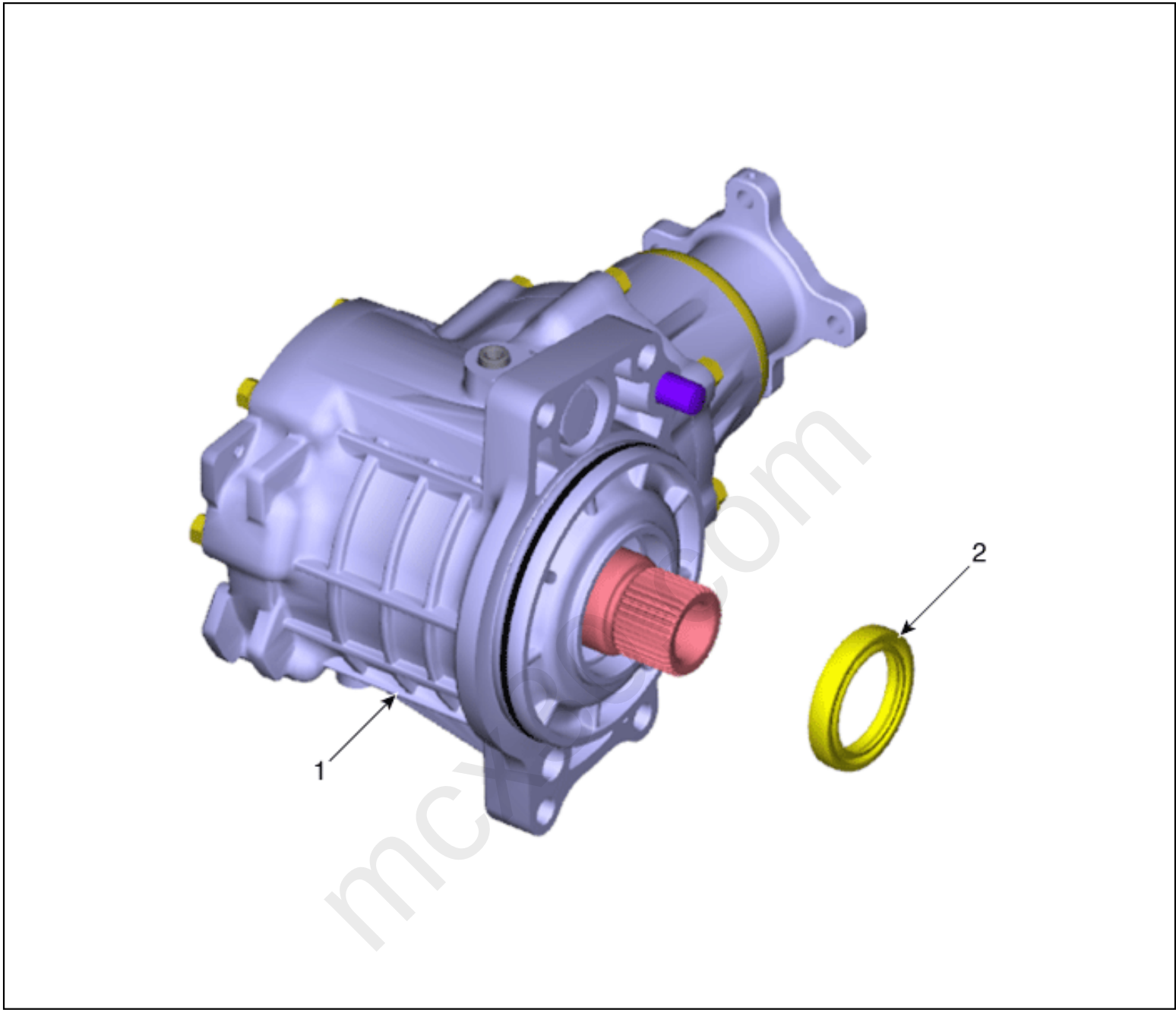


•Install the propeller shaft to be near runout marking (Transfer assembly 1ea (A), propeller shaft 1ea (B) each other.



Component

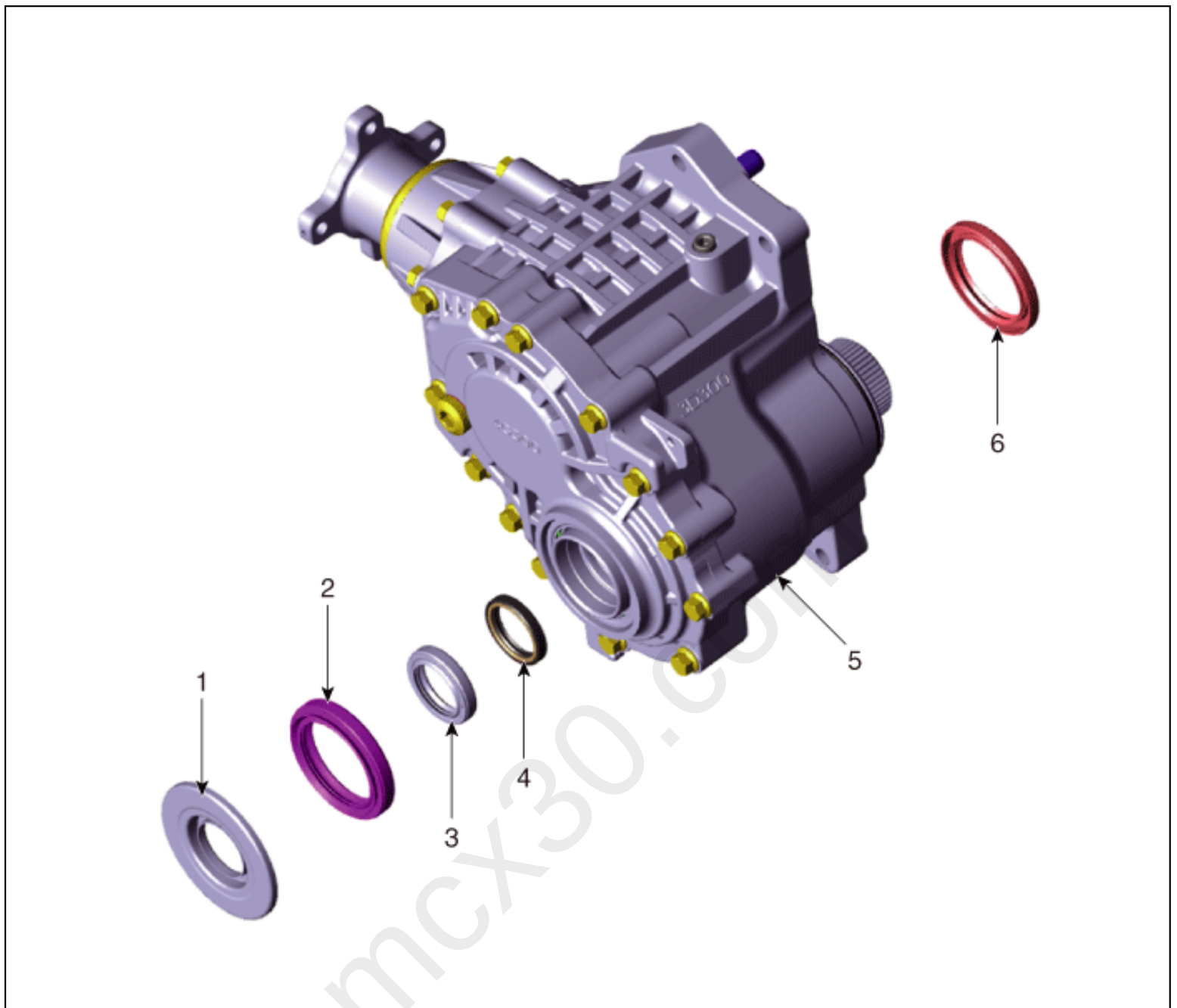
[A Type]



1. Transfer Case

2. Oil seal (Transaxle side)

[B Type]



- 1. Dust cover
- 2. Oil seal #1 (Drive shaft side)
- 3. Oil seal #2 (Drive shaft side)

- 4. Oil seal #3 (Drive shaft side)
- 5. Transfer Case
- 6. Oil seal (Transaxle side)

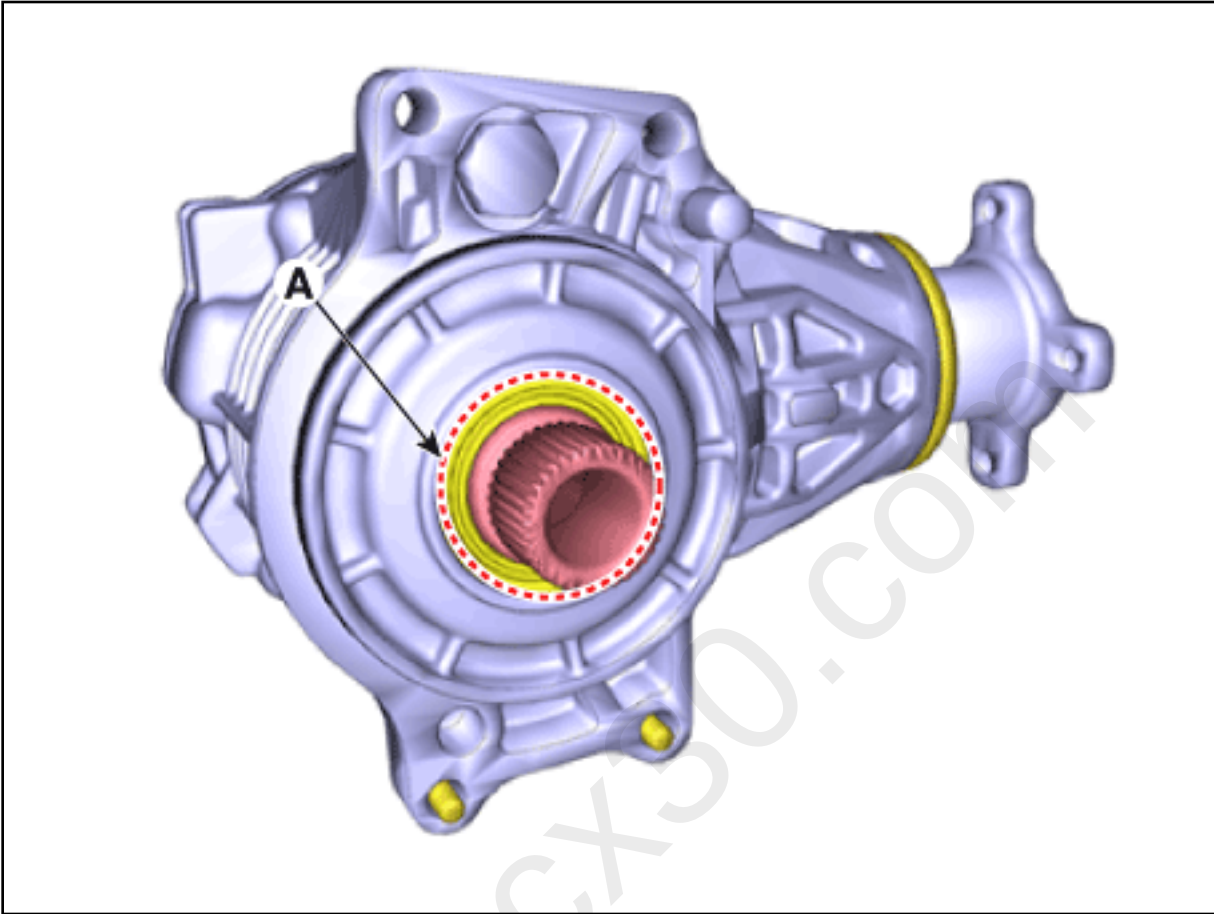
Replacement

Transaxle side oil seal [AType]

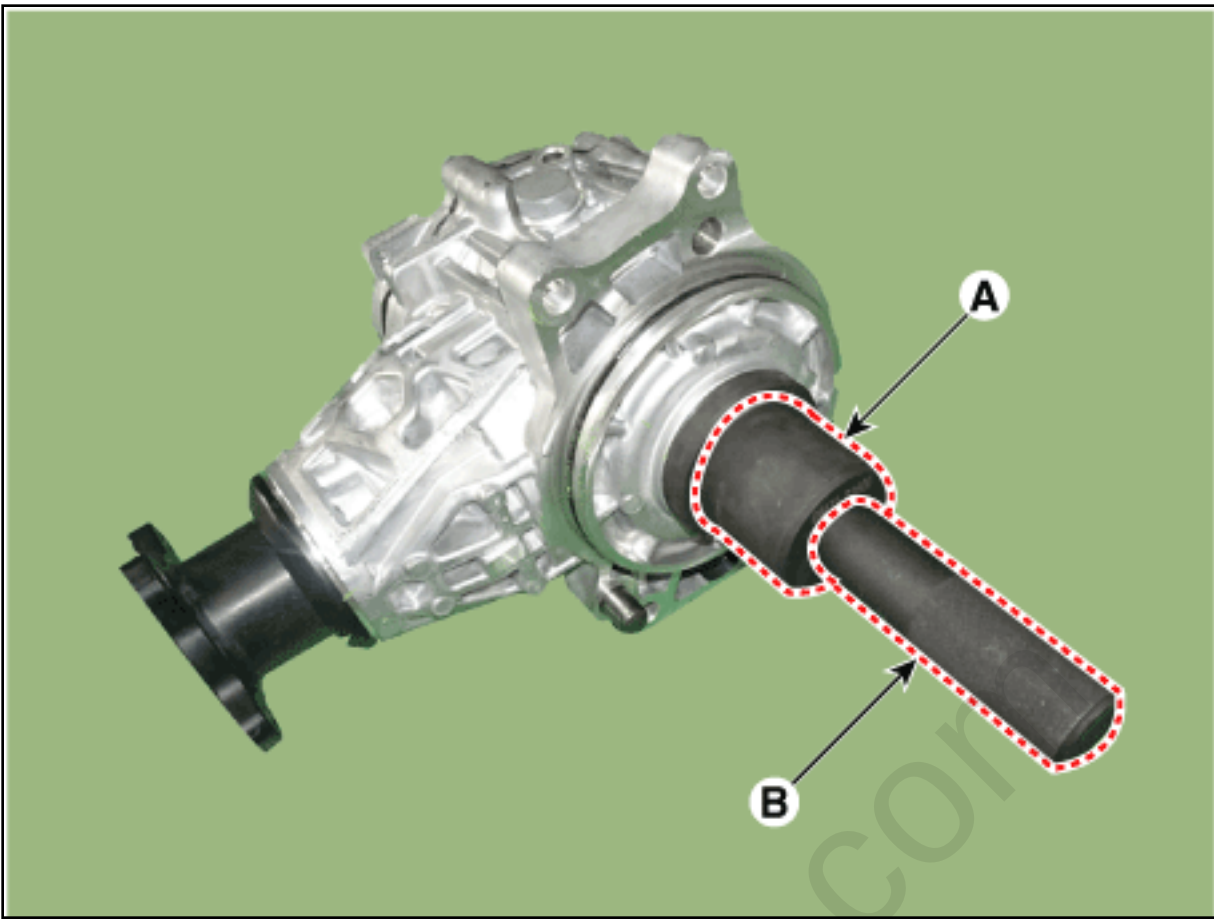
1. Remove the transfer assembly.

(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")

2. Remove the transfer assembly side oil seal (A).



3. Install the oil seal with a new one by using the special service tools [09473-D3600(A), 09231-H1100 (B)].



4. Remove the special service tools

5. Install the transfer assembly.

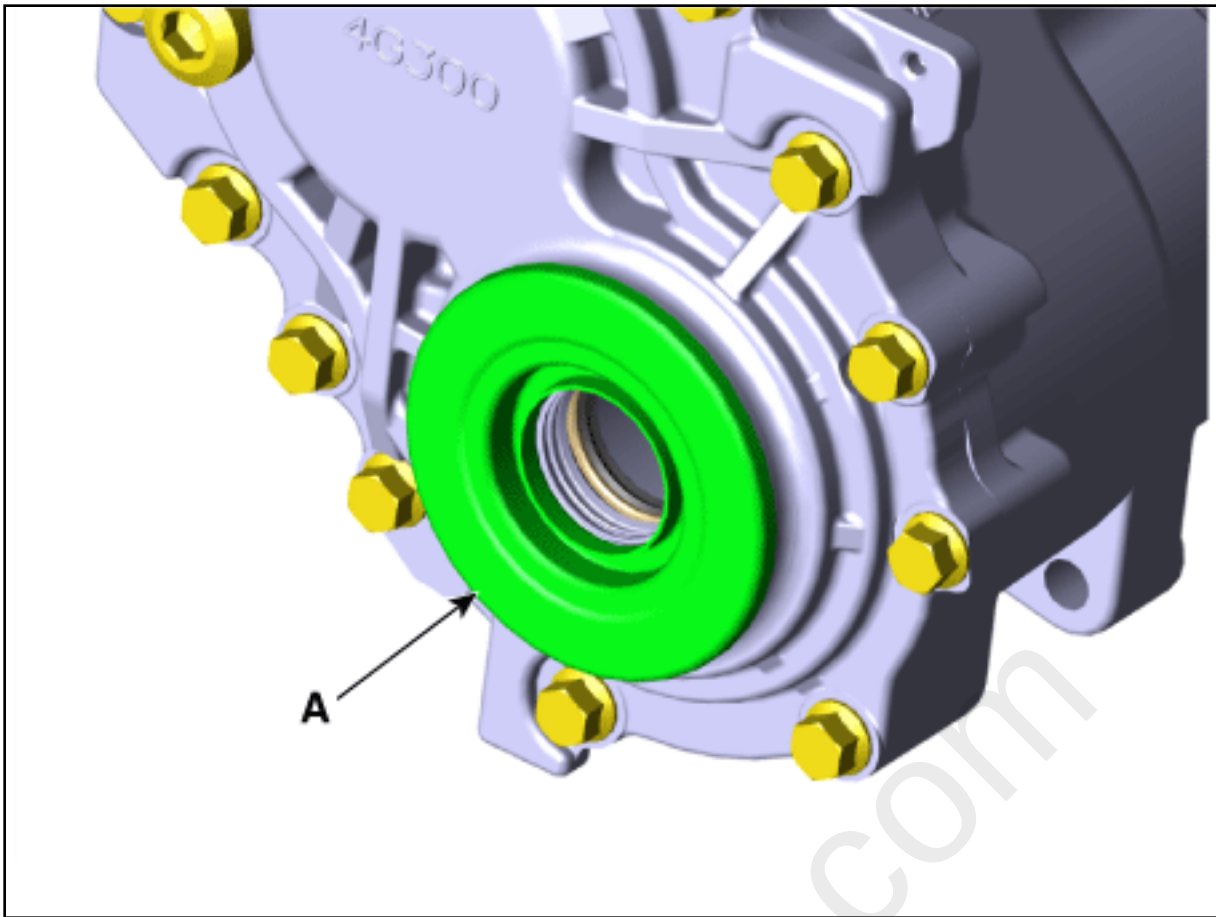
(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")

Driveshaft side oil seal #1 [B Type]

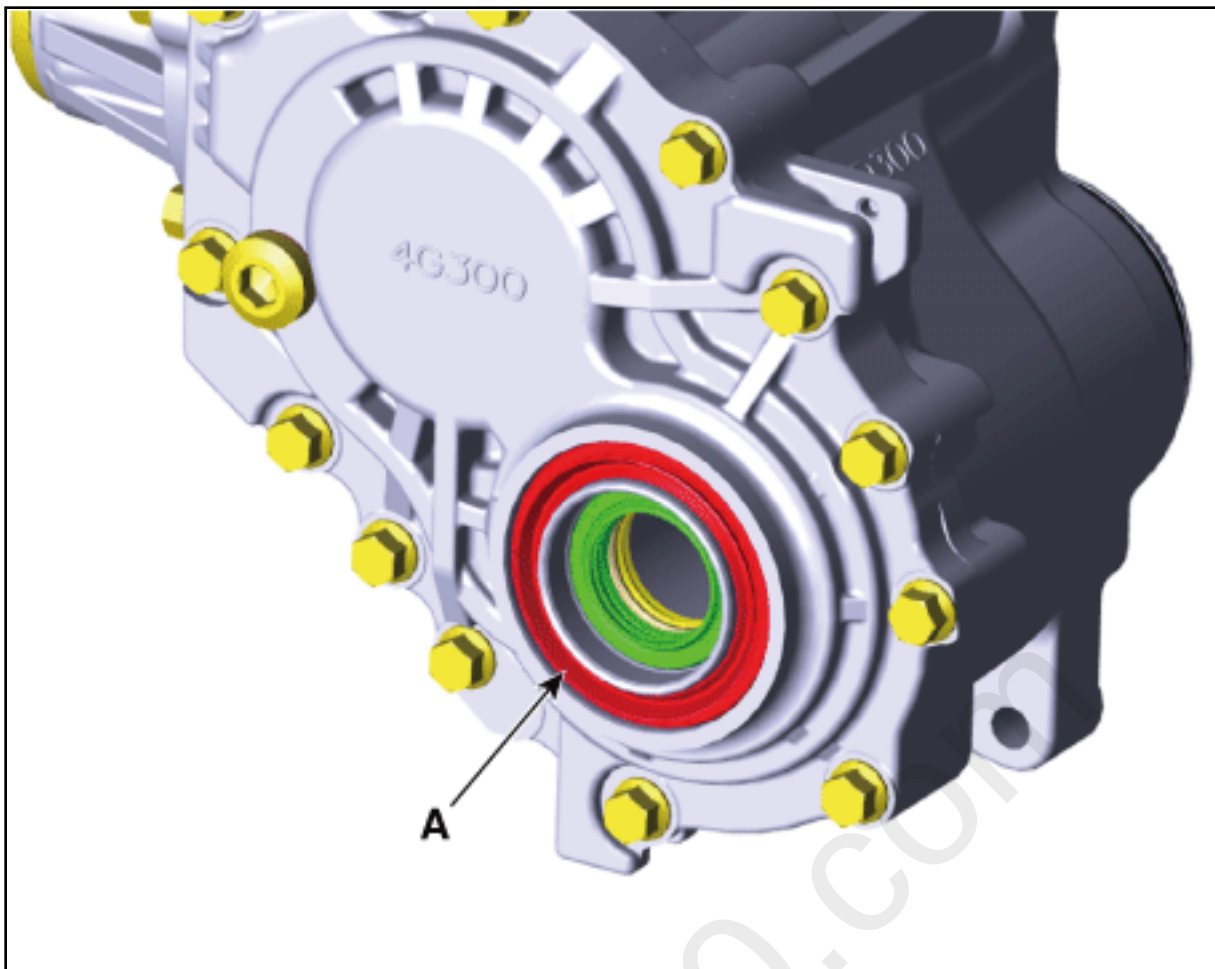
1. Remove the transfer assembly.

(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")

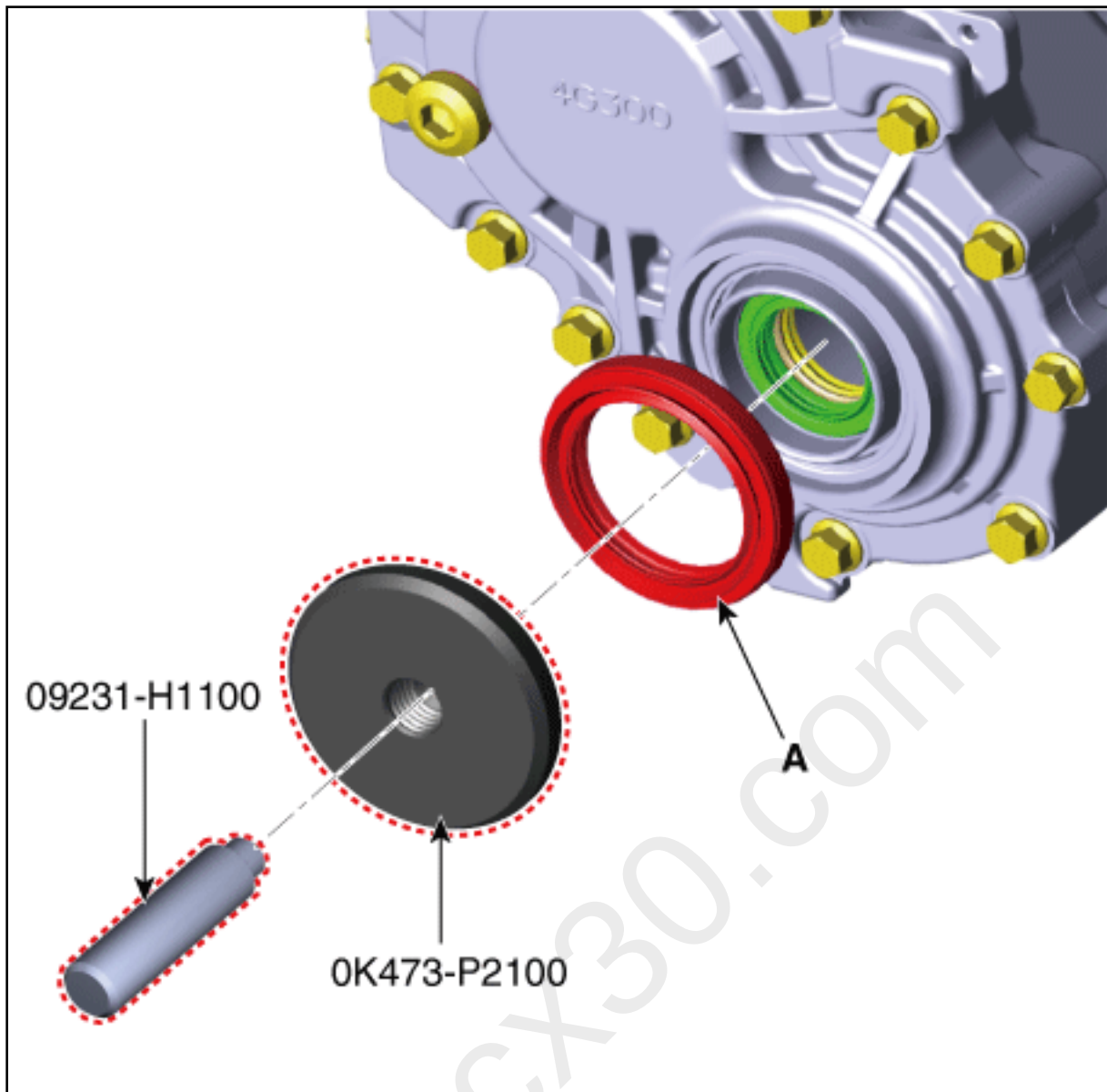
2. Remove the dust cover (A).



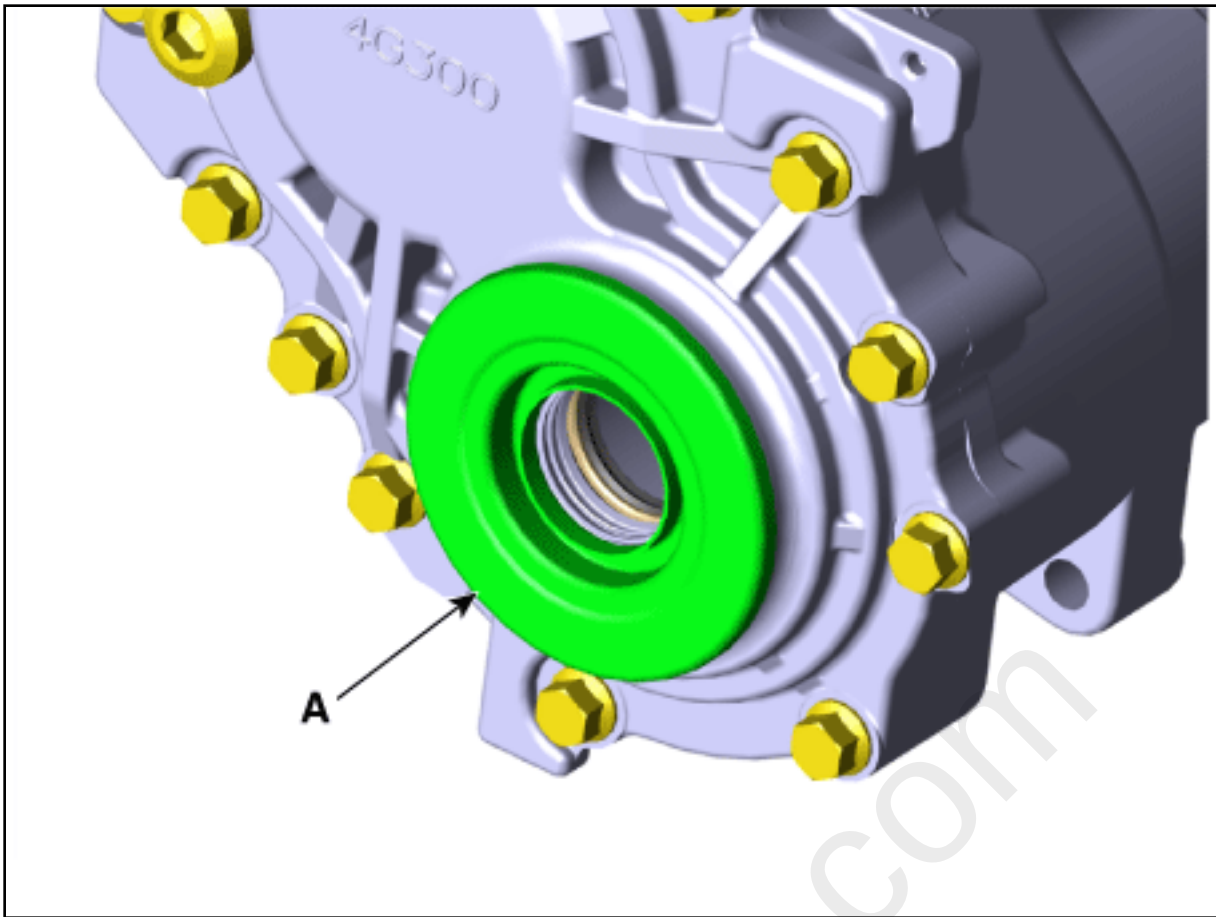
3. Remove the oil seal #1 (A).



4. Install the oil seal #1 (A) with a new one by using the special service tools (0K473-P2100, 09231-H1100).



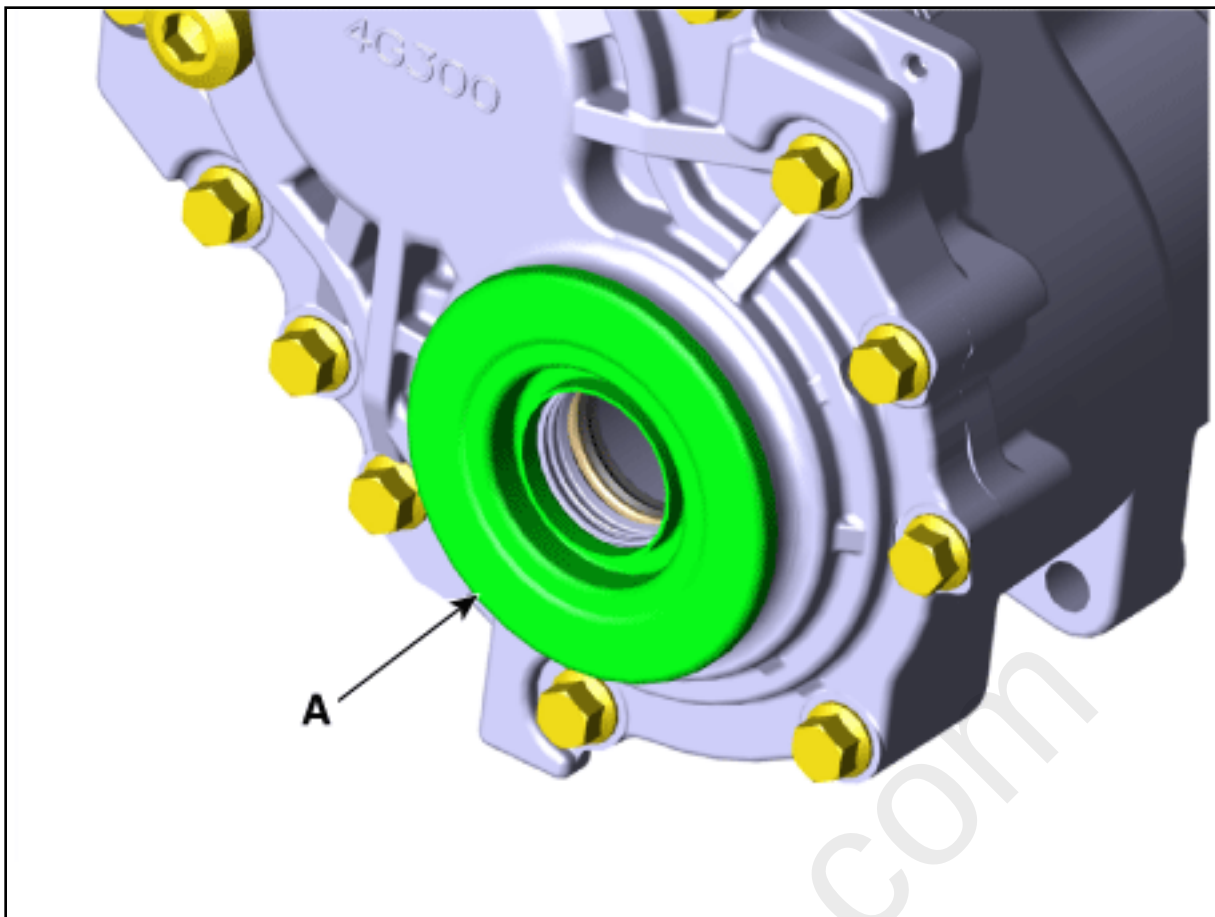
5. Remove the special service tools
6. Install the dust cover (A) with a new one.



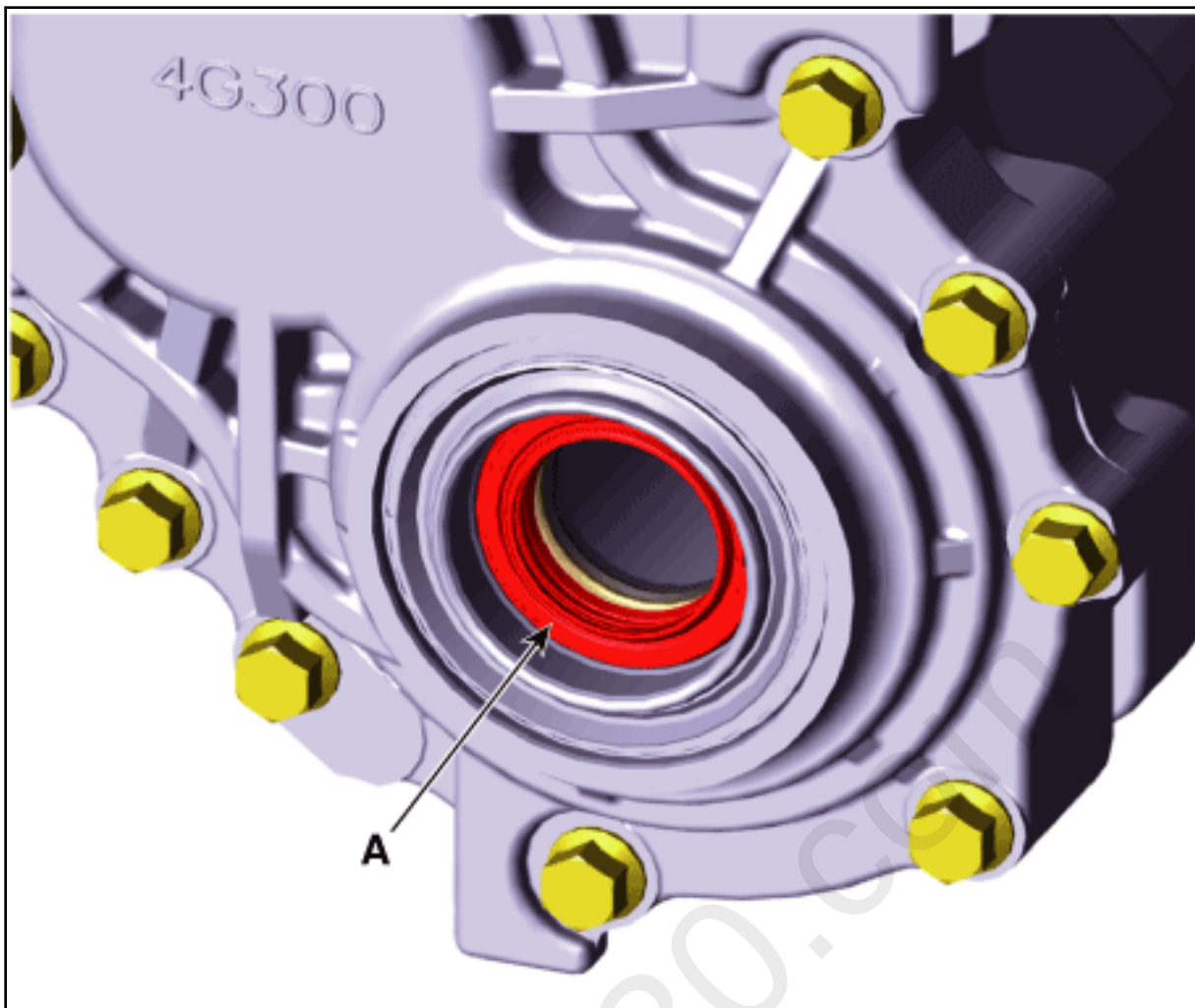
7. Install the transfer assembly.
(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")
8. If the transfer oil is leaking, add the transfer with oil.
(Refer to All Wheel Drive System - "Transfer Fluid")

Driveshaft side oil seal #2 [B Type]

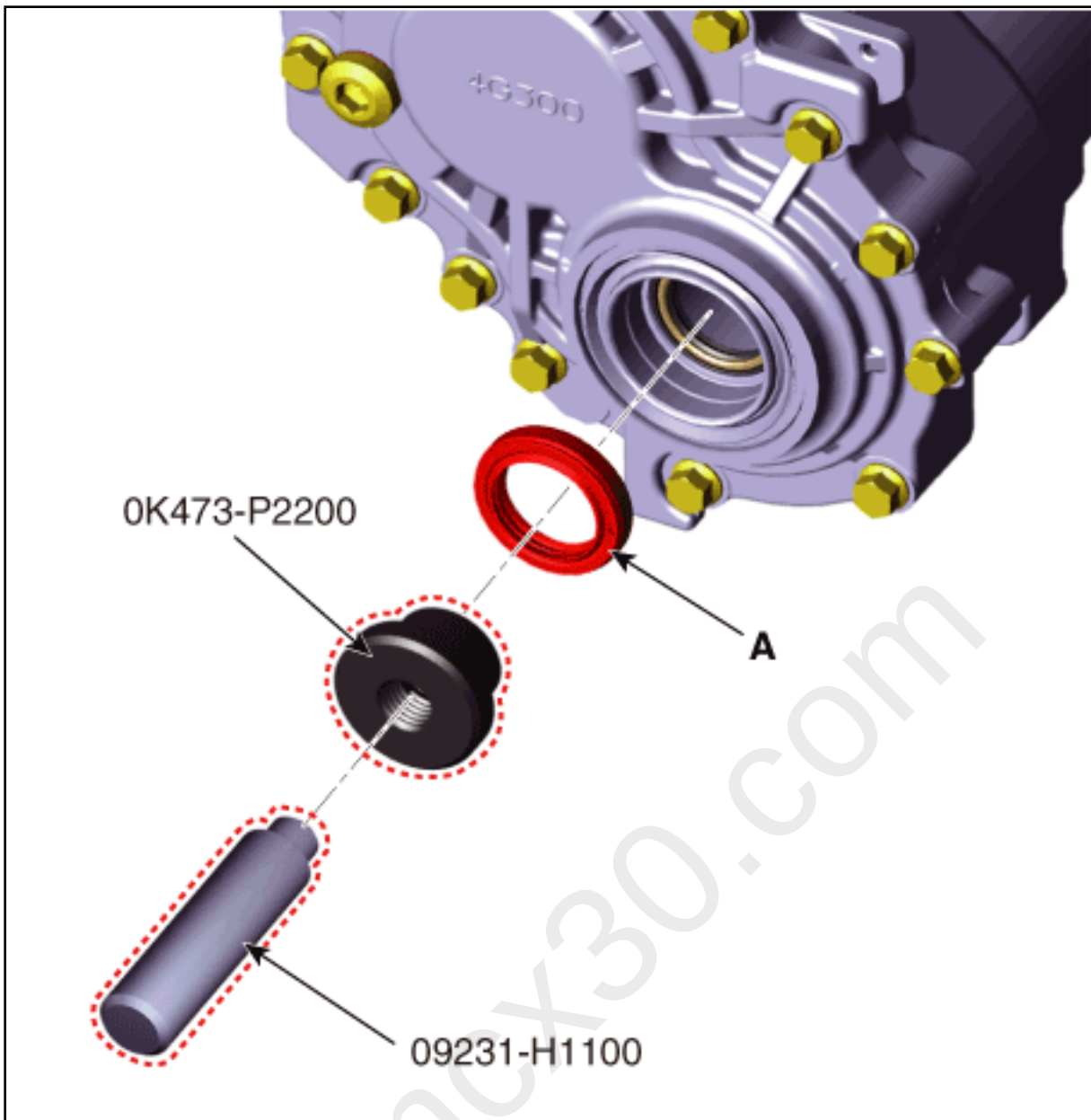
1. Remove the transfer assembly.
(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")
2. Remove the dust cover (A).



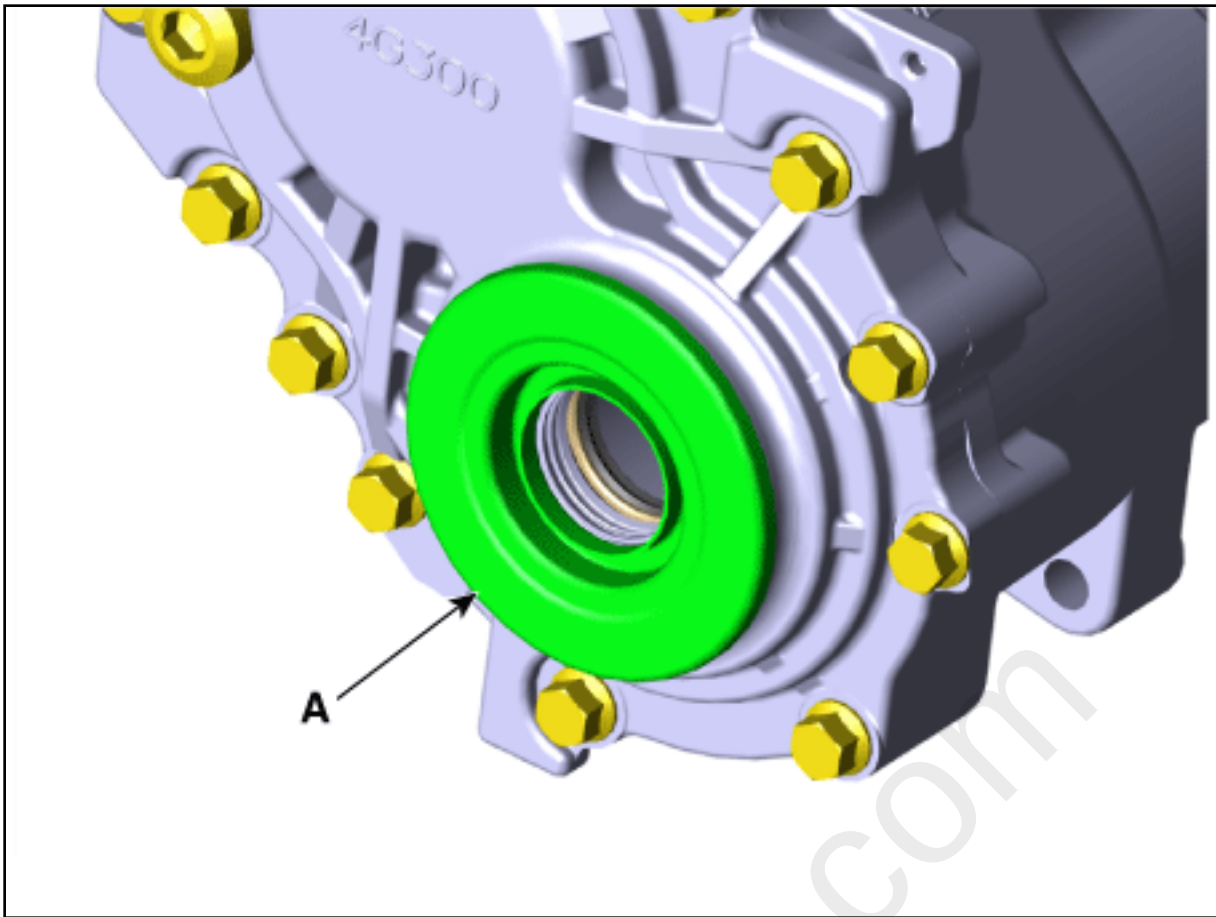
3. Remove the oil seal #2 (A).



4. Install the oil seal #2 (A) with a new one by using the special service tools (0K473-P2200, 09231-H1100).



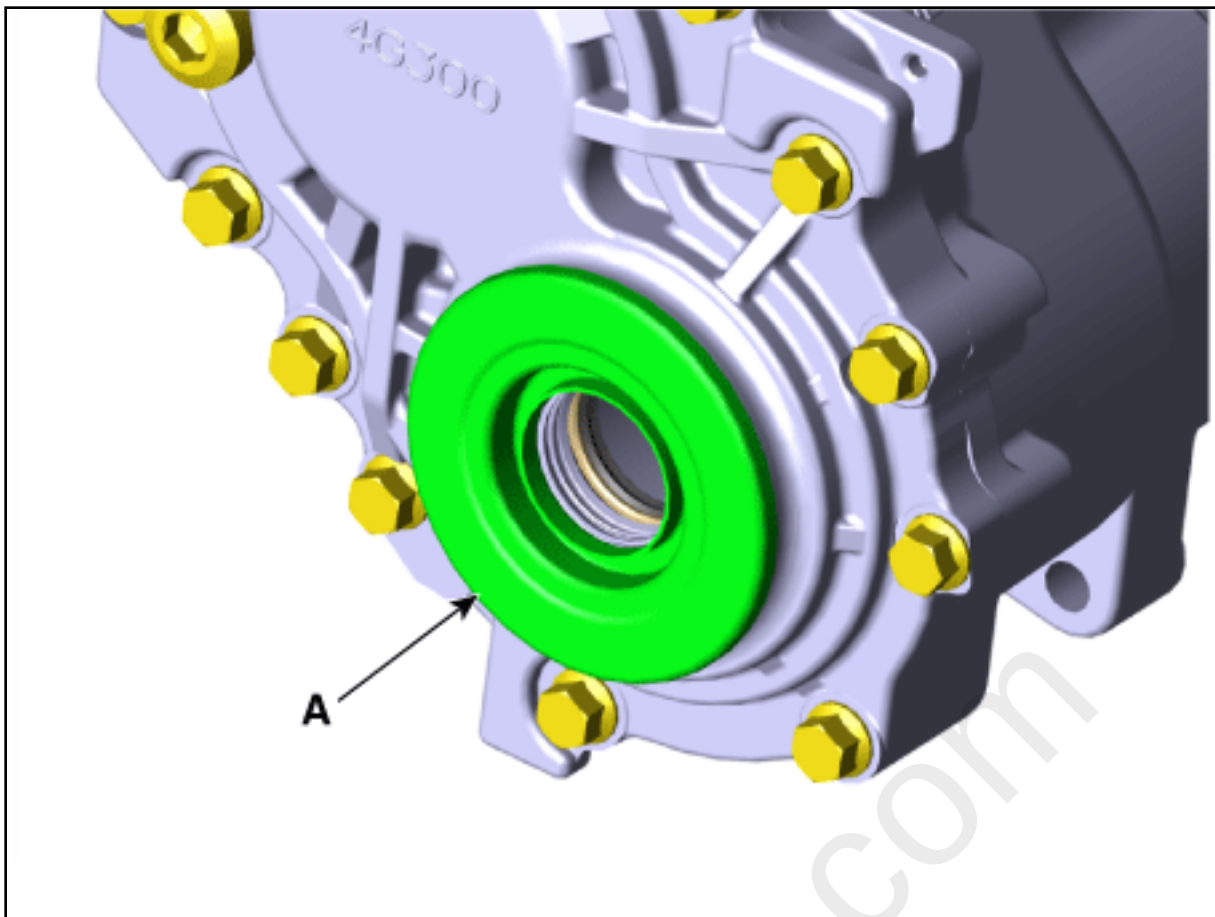
5. Remove the special service tools
6. Install the dust cover (A) with a new one.



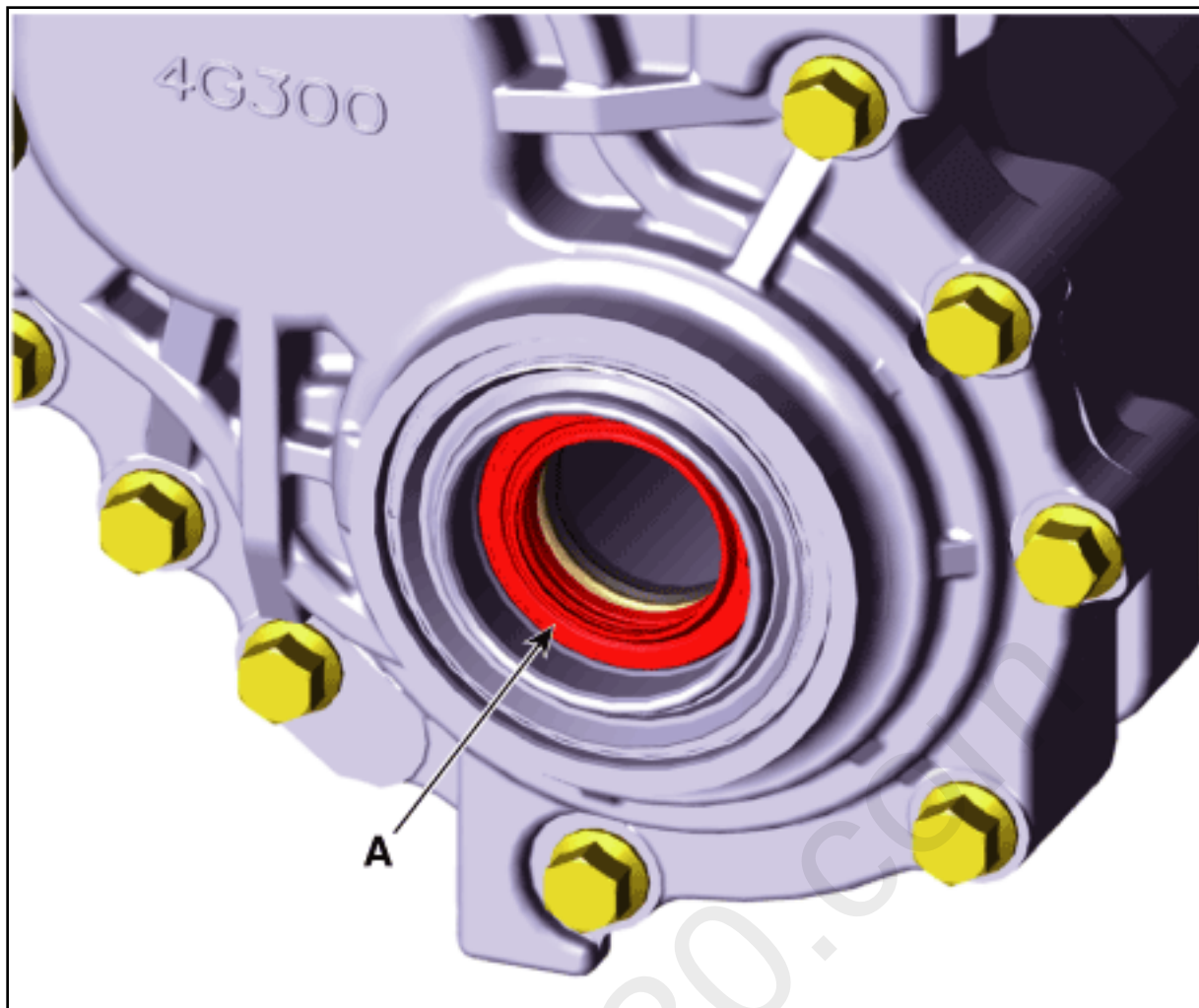
7. Install the transfer assembly.
(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")
8. If the transfer oil is leaking, add the transfer with oil.
(Refer to 4 Wheel Drive System - "Transfer Fluid")

Driveshaft side oil seal #3 [B TypeI]

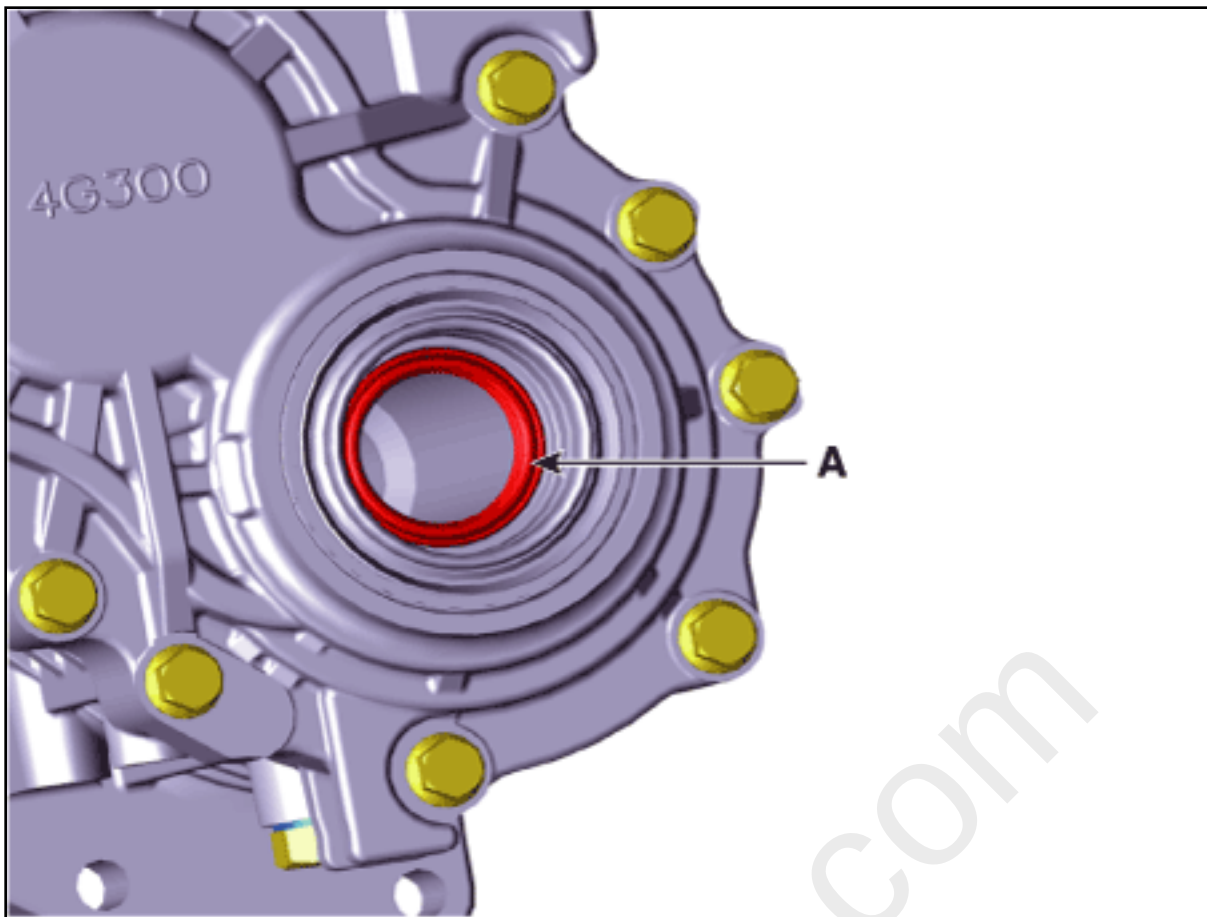
1. Remove the transfer assembly.
(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")
2. Remove the dust cover (A).



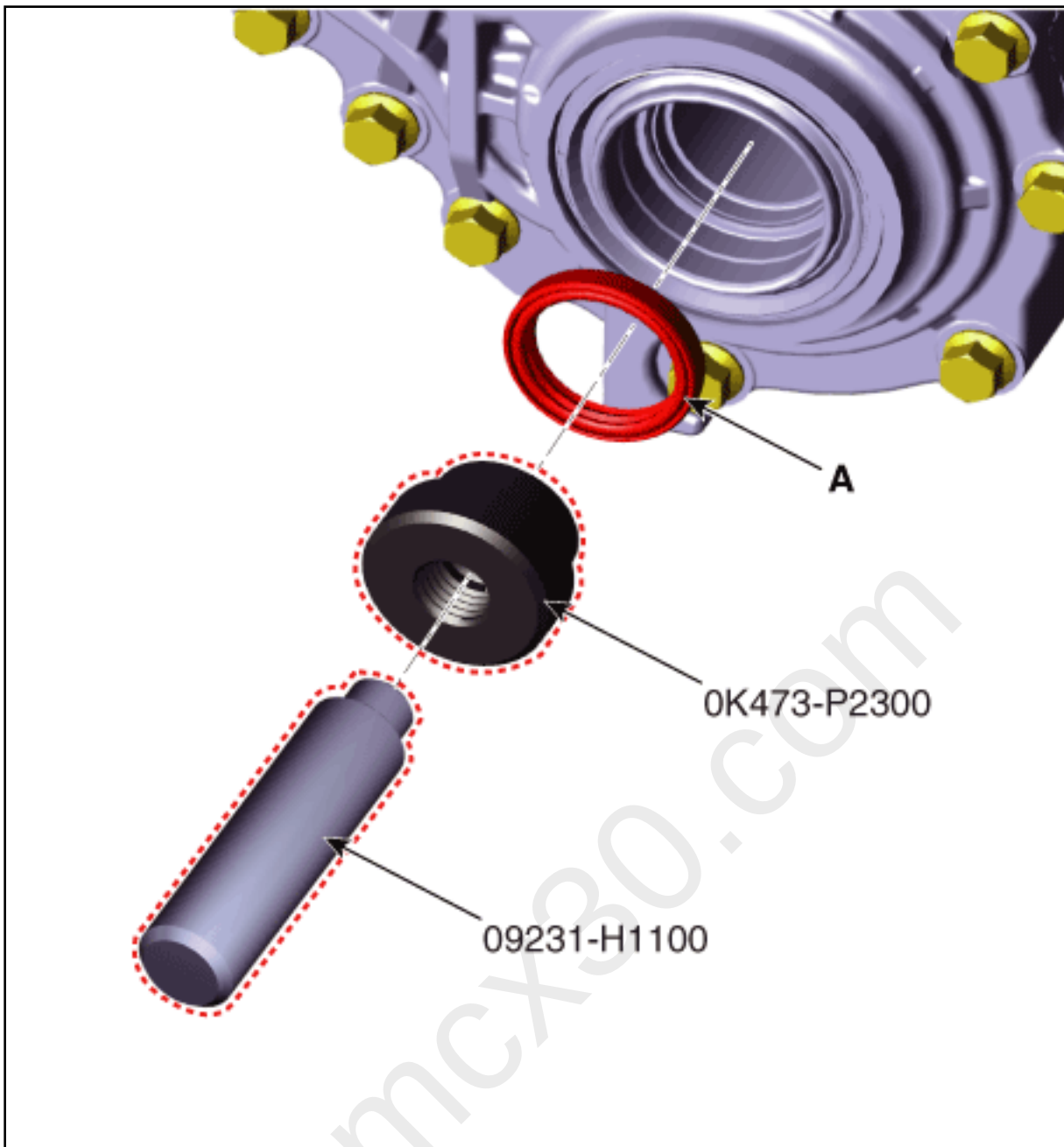
3. Remove the oil seal #2 (A).



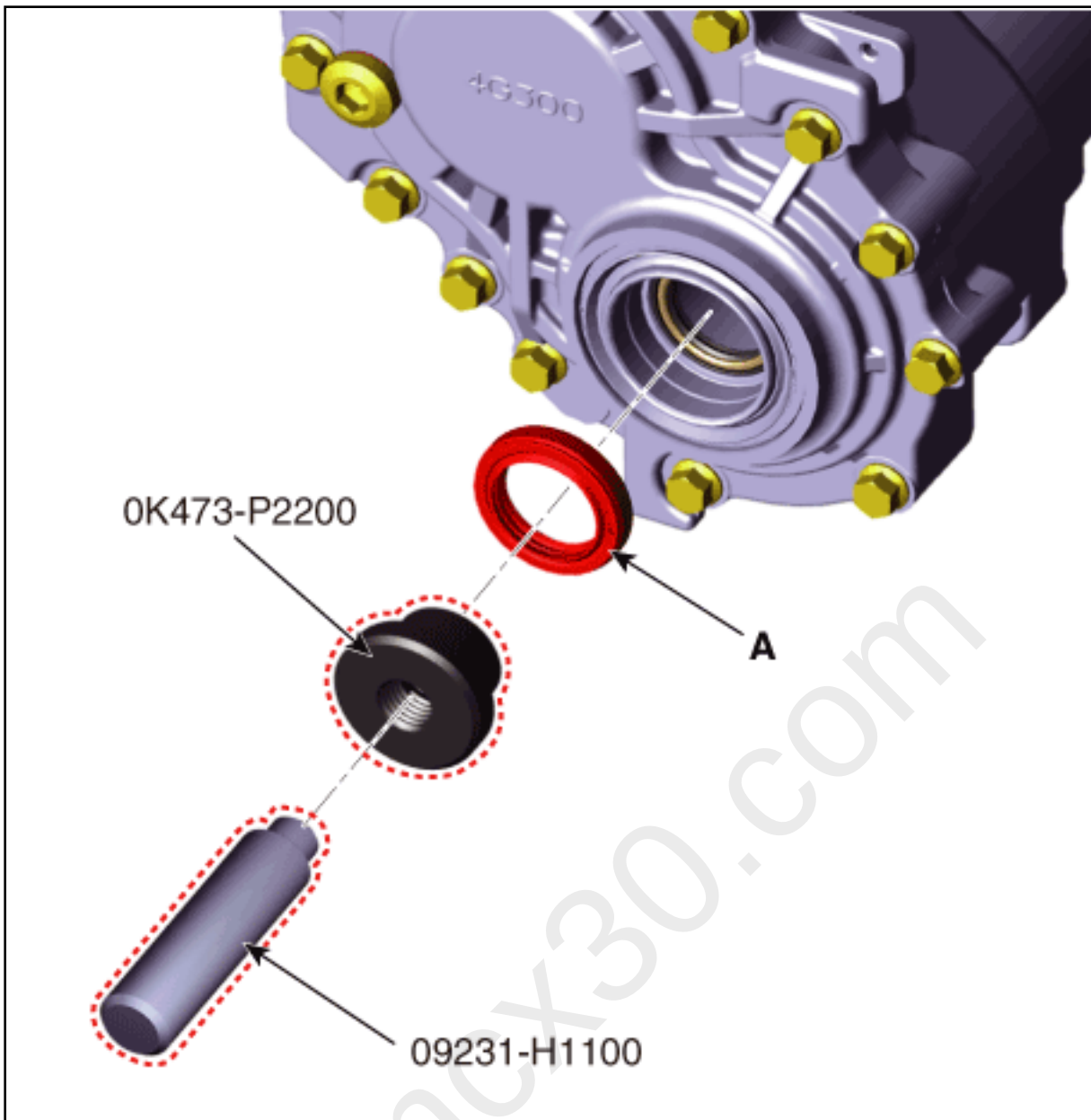
4. Remove the oil seal #3 (A).



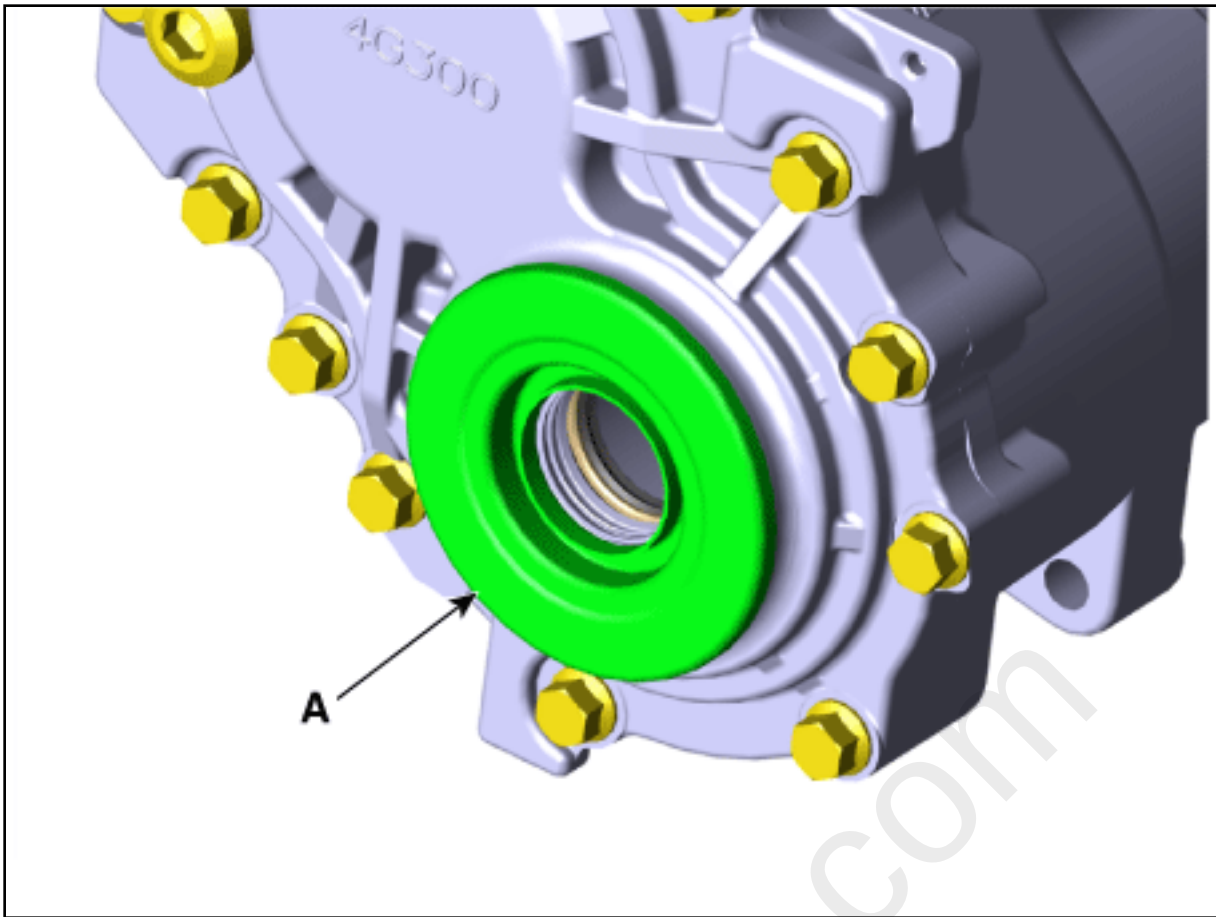
5. Install the oil seal #3 (A) with a new one by using the special service tools (0K473-P2300, 09231-H1100).



6. Install the oil seal #2 (A) with a new one by using the special service tools (0K473-P2200, 09231-H1100).



7. Remove the special service tools
8. Install the dust cover (A) with a new one.



9. Install the transfer assembly.

(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")

10. If the transfer oil is leaking, add the transfer with oil.

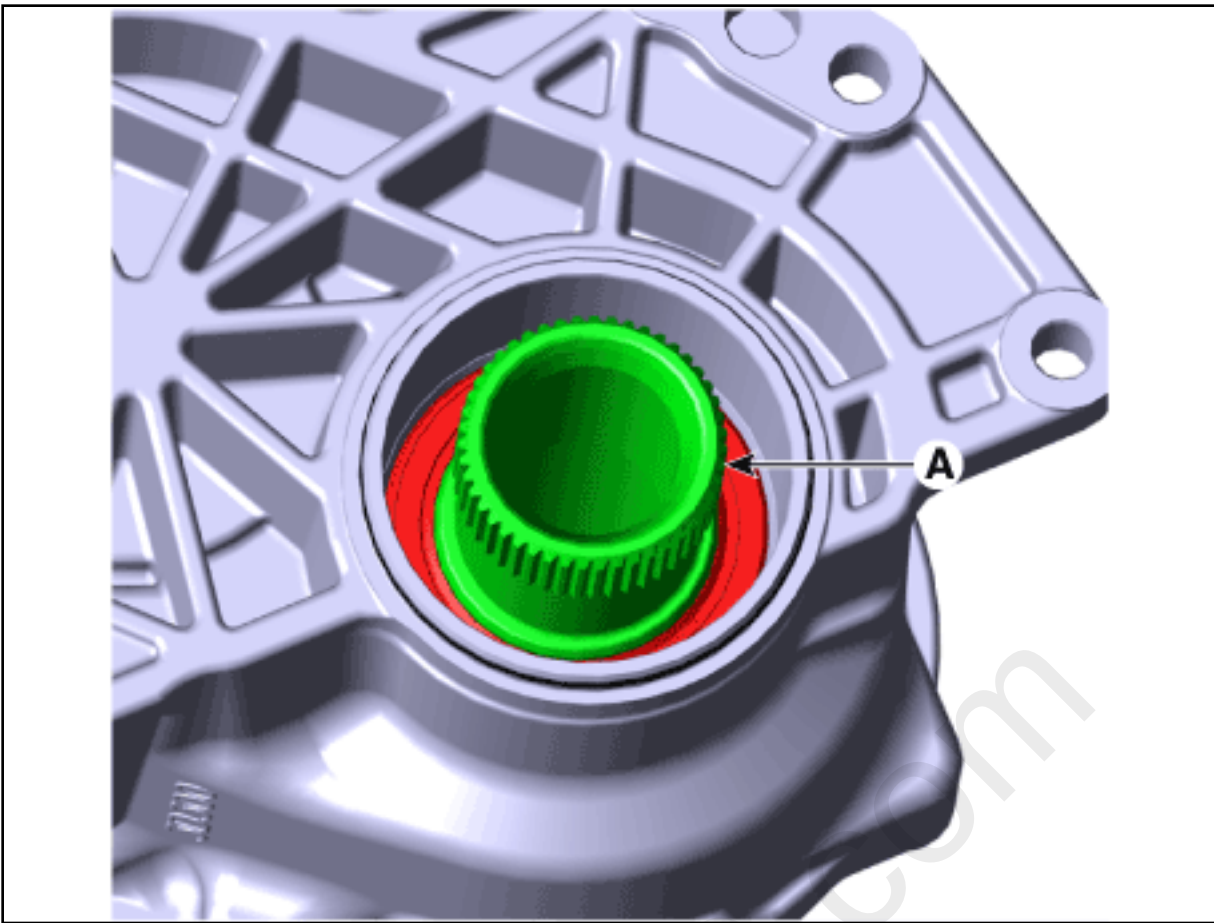
(Refer to 4 Wheel Drive System - "Transfer Fluid")

Transaxle side oil seal [B Type]

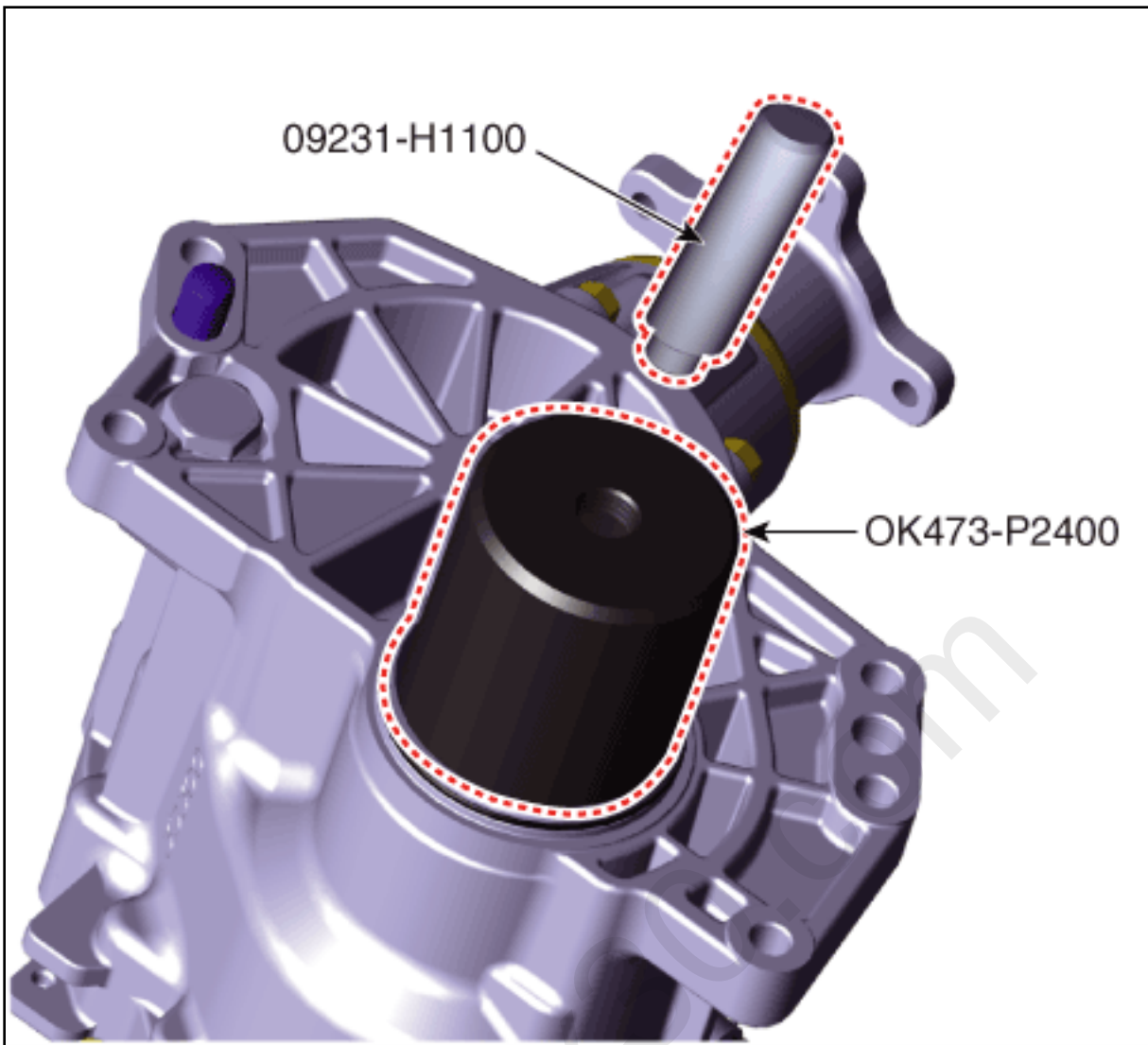
1. Remove the transfer assembly.

(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")

2. Remove the transfer assembly side oil seal (A).



3. Install the oil seal with a new one by using the special service tools (0K473-P2400, 09231-H1100).



4. Remove the special service tools
5. Install the transfer assembly.
(Refer to 4 Wheel Drive (4WD) System - "Front Wheel Transfer Assembly")
6. If the transfer oil is leaking, add the transfer with oil.
(Refer to 4 Wheel Drive System - "Transfer Fluid")